May 1991



nesearch Laboratory

# Maintenance Resources by Building Use for U.S. Army Installations

Volume III: Appendices I Through P

by Edgar S. Neely Robert D. Neathammer

This research project provides improved maintenance resource data for use during facility planning, design, and maintenance activities. Data bases have been developed to assist planners in preparing DD Form 1391 documentation, designers in life-cycle cost component selection, and maintainers in resource planning. The data bases are useful to U.S. Army Corps of Engineers (USACE) headquarters, Army Major Commands, and installations. These research products may also be useful to other Government agencies and the private sector.

This report describes the building task maintenance and repair data bases. It is one of a series of special reports on building maintenance and repair. Value I is the main text, Volume II is Appendices A through H, and Volume III is Appendices I through P.



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Maintenance Resources by Building Use for U.S. Army Installations, Volume III: Appendices I Through P  Author(s)  Edgar S. Neely and Robert D. Neathammer  Performing organization name(s) and address(es)  U.S. Army Construction Engineering Research Laboratory (USACERL)  2902 Newmark Drive, PO Box 4005  Champaign, IL 61824-4005  SPONSORINGMONITORING AGENCY NAME(S) AND ADDRESS(ES)  HQUSACE  ATTN: CEHSC-FM-R  20 Massachusetts Avenue, NW Washington DC 20001  Number of U.S. Army Installations, Volume RDTE da REIMB 1  8. Performing REPORT NUM  TR P-  10. SPONSORING AGENCY NAME(S) AND ADDRESS(ES)  11. SPONSORING AGENCY REIM AGENCY	AGENCY USE ONLY (Leave Blank)	2. REPORT DATE May 1991	3. REPORT TYPE AND DATES CO Final	OVERED
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This report describes the building task maintenance and repair data bases. It is one of a series of special reports on building maintenance and repair. Volume I is the main text, Volume II is Appendices A through H, and Volume III is Appendices I through P.

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#### **FOREWORD**

This research was conducted for Headquarters, U.S. Army Corps of Engineers and the Office of the Assistant Chief of Engineers under various research, development, testing, and evaluation (RDTE) and reimbursable funding documents. Work began under RDTE funding in 1980 and with reimbursable projects in 1984. The technical monitor for the RDTE part was Mr. Greg Tsukalas (CEHSC-FM-R) and for the reimbursable part was Ms. Val Corbridge (DAEN-ZCF-R).

The work was performed by the Facility Systems Division (FS), U.S. Army Construction Engineering Research Laboratory (USACERL). The Principal Investigators were Dr. Edgar Neely and Mr. Robert Neathammer (USACERL-FS). Dr. Michael O'Connor is Chief of USACERL-FS. Technical editing support was provided by Ms. Linda Wheatley, Information Management Office.

COL Everett R. Thomas is Commander and Director of USACERL, and Dr. L.R. Shaffer is Technical Director.

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# **DISTRIBUTION**

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COMPONENT AND TASK DESCRIPTIONS

0415415 REPLACE CONCRETE BRICK EXT.MALL 1ST FL.
041542 CONCRETE BRICK EXTERIOR FIN. 200 FLOOR
041542 REPLACE CONCRETE BRICK EXT.MALL 2ND FL.
041543 CONCRETE BRICK EXT.MALL 3RD+FLS.
041550 CONCRETE BRICK EXT.MALL 3RD+FLS.
041551 REPLACE CONCRETE BRICK EXT.MALL 1ST FL.
0415512 REPLAND.CONCRETE BRICK EXT.MALL 1ST FL.
0415513 REPLC.PNTD.CONC.BRICK EXT.MALL 1ST FL.
041552 REPLAND.CONCRETE BRICK EXT.MALL 1ST FL.
041553 REPLC.PNTD.CONC.BRICK EXT.MALL 1ST FL.
041553 REPLC.PNTD.CONC.BRICK EXT.MALL 2ND FL.
041553 REPLC.PNTD.CONC.BRICK EXT.MALL 2ND FL.
041553 REPLC.PNTD.CONC.BRICK EXT.MALL 2ND FL.
041553 REPLC.PNTD.CONC.BRICK EXT.MALL 3RD+FLS.
041553 REPLAND.CONC.BRICK EXT.MALL 3RD+FLS.
041554 REPLN.RPLO.CONC.BRICK EXT.MALL 3RD+FLS.
041555 REPLACE STRUCT.CLAY TILE EXT.MALL 3TF FLOOR
041555 REPLACE STRUCT.CLAY TILE EXT.MALL 3TF FLOOR
041555 REPLACE STRUCT.CLAY TILE EXT.MALL 3TF FLOOR
041550 STRUCTURAL CLAY TILE EXT.MALL 3TF FLOOR
041550 STRUCTURAL CLAY TILE EXT.MALL 3TF FLOOR
041551 REPLACE STRUCT.CLAY TILE EXT.MALL 3TF FLOOR
041571 REPLN.RPLO.CONT.BRICK.T. STRUCT.CLAY TILE EXT. STRUC

Army Wide Task/Basic Task Structure List

DESCRIPTION

CACES

GAT2000 INTERIOR SKIN JONSTRUCTION

GAT3000 SCREEN WALLS

GAT5000 SCREEN WALLS

GAT5100 ADOBGE EXTERIOR FINISH

GAT5110 REPLATE AND FER EXTERIOR WALL 1ST FLOOR

GAT5112 REPLATE ADOBE EXTERIOR WALL 1ST FLOOR

GAT5112 REPLATE ADOBE EXTERIOR WALL 1ST FLOOR

GAT5113 REFINISH REPLACED ADOBE EXTERIOR WALL 1ST FLOOR

GAT512 REPLACE ADOBE EXTERIOR WALL 1ST FLOOR

GAT512 REPLACE ADOBE EXTERIOR WALL 1ST FLOOR

GAT512 REPLACE ADOBE EXTERIOR WALL 2ND FLOOR

GAT512 REFINISH REPLACED ADOBE EXTERIOR WALL 3RD-FLOOR

GAT512 REFINISH REPLACED ADOBE EXTERIOR WALL 3RD-FLOOR

GAT512 REFINISH REPLACED ADOBE EXTERIOR WALL 3RD-FLOOR

GAT513 REFINISH REPLACED ADOBE EXTERIOR WALL 3RD-FLOOR

GAT513 REFINISH REPLACED ADOBE EXTERIOR WALL 3RD-FLOOR

GAT513 REFINISH REPLACED ADOBE EXTERIOR WALL 3RD-FLOOR

GAT520 CLAY BRICK EXTERIOR FINISH FROOR

GAT521 REPLACE CADOBE EXTERIOR WALL 3RD-FLOOR

GAT523 REPLACE CLAY BRICK EXTERIOR WALL 1ST FLOOR

GAT523 REPLACE PRODUCLAY BRICK EXTINIC STOOR

GAT523 REPLACE PRODUCLAY BRICK EXTINIC STOOR

GAT533 REPLACE PRODUCLAY BRICK EXTINIC STOOR

GAT533 REPLACE PRODUCL

0415412

CACES

**DESCRIPTION** 

Page

0415B30 STONE EXTERIOR FINISH 3RD+ FLOOR
0415B32 REPLACE STONE EXTERIOR WALL - 3RD+ FLOORS
0415B32 REPLACE STONE EXTERIOR WALL - 3RD+ FLOORS
0415B35 REPLACE STONE EXTERIOR WALL - 1ST FLOOR
0415C13 REFNI REPLACE STUCCO EXT.WALL 1ST FLOOR
0415C13 REFNI REPLACE STUCCO EXT.WALL 1ST FLOOR
0415C16 REFNI REPLACE STUCCO EXT.WALL 1ST FLOOR
0415C20 STUCCO EXTERIOR WALL - 1ST FLOOR
0415C22 REPLACE STUCCO EXTERIOR WALL - 1SD FLOOR
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0415C28 REFNI REPLACE STUCCO EXT.WALL 1SD FLOOR
0415C28 REPLACE STUCCO EXT.WALL 3RD+ FLOOR
0415C28 REPLACE STUCCO EXT.WALL 3RD+ FLOOR
0415C3 REPLACE TERRACOTIA EXTERIOR WALL 1ST FLOOR
0415C3 REPLACE TERRACOTIA EXTERIOR WALL 1ST FLOOR
0415C3 REPLACE TERRACOTIA EXTERIOR WALL 1ST FLOOR
0415C3 REPLACE TERRACOTIA EXTERIOR WALL 3RD+ FLOOR
0415C3 REPLACE TERRACOTIA EXTERIOR WALL 2ND FLOOR
0415C3 REPLACE TERRACOTIA EXTERIOR WALL 2ND FLOOR
0415C3 REPLACE TERRACOTIA EXTERIOR WALL 3RD+ FLOOR
0415C3 REPLACE WOOD FINISH SIGNED COAT) STT FLOOR
0415C3 REPLAC 0415F00 WOOD, 0415F10 WOO 0415F12 0415F13

Army Wide Task/Basic Task Structure List

DESCRIPTION

CACES

0415800 CONCRETE BLOCK EXTERIOR FIN. 15T FLOOR
0415812 REPAIR CONCRETE BLOCK EXT. MALL 15T FL.
0415812 CONCRETE BLOCK EXT. MALL 15T FL.
0415825 CONCRETE BLOCK EXT. MALL 15T FL.
0415820 CONCRETE BLOCK EXT. MALL 2ND FL.
0415825 REPAIR CONCRETE BLOCK EXT. MALL 2ND FL.
0415820 CONCRETE BLOCK EXT. MALL 2ND FL.
0415820 REPAIR CONCRETE BLOCK EXT. MALL 3ND FL.
0415821 REPAIR CONCRETE BLOCK EXT. MALL 3ND FL.
0415820 CONCRETE BLOCK (WPP) EXT. FIN. 15T FLR.
0415921 REPR. PNTD. CONCR. BLOCK EXT. MALL 15T FLR.
0415912 REPR. PNTD. CONCR. BLOCK EXT. MALL 15T FLL.
0415921 REPR. PNTD. CONCR. BLOCK EXT. MALL 15T FLL.
0415922 REPR. PNTD. CONCR. BLOCK EXT. MALL 15T FLL.
0415920 CONCRETE BLOCK (WPP) EXT. FIN. 15T FLR.
0415920 REPR. PNTD. CONCR. BLOCK EXT. MALL 15T FLL.
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0415932 REPR. PNTD. CONCRETE EXT. MALL 15T FLOOR
0415932 REPR. REPLACED CONCRETE EXT. MALL 15T FLOOR
0415932 REPR. REPLACED CONCRETE EXT. MALL 15T FLOOR
0415932 REPR. REPLACED CONCRETE EXT. WALL 15T FLOOR
0415932 REPAIR STONE EXTREMOR FLOOR
0415932 REPAIR STONE EXTREMOR FLOOR
0415932 REPAIR STONE EXTREMOR PALL 15T FLOOR

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CACES

DESCRIPTION

0415130 ALUMINUM SIDING EXTRENDE FILL. 6415133 REFIN.REPRO ALUMINUM SIDING EXT.3RD FL. 6415133 REFIN.REPRO ALUMINUM SIDING EXT.3RD FL. 6415133 REFIN.REPRO ALUMINUM SIDING EXT.3RD FL. 6415137 REFIN.REPRO ALUMINUM SIDING EXT.3RD FL. 641510 ALUMINUM SIDING CANGIZED) FINISH 641510 ALUMINUM SIDING (AANOZD) FINISH 6415110 ALUMINUM SIDING (AANOZD) FINISH 6415110 ALUMINUM SIDING (AANOZD) FINISH 6415120 ALUMINUM SIDING (AANOZD) FINISH 6415120 ALUMINUM SIDING (AANOZD) FINISH 6415120 ALUMINUM SIDING (AANOZD) FINISH 6415130 ALUMINUM SIDING (AANOZD) FINISH 6415140 ALUMINUM SIDING AANOX AANOX

Army Wide Task/Basic Task Structure List

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**DESCRIPTION** 

EXT. 1ST FL.

A)EXT. FIN. ZND FL.

EXT. ZND FL.

EXT. ZND FL.

H)EXT. FIN. 3RD+ FLR.

EXT. 3RD+ FL.

EXT. 3RD+ FL.

EXT. 1815H

EXT. FIN. 1ST FLOOR

(FIN.)EXT. 1ST FLOOR

(FIN.)EXT. 1ST FLOOR

TEPAIR WOOD SHAKES EXT. 2ND FLUEPAIR WOOD SHAKES EXT. 2ND FLUEPLC. WOOD SHAKES EXT. 2ND FLUEPLC. WOOD SHAKES EXT. 2ND FLUEPLC. WOOD SHAKES EXT. 3RD+ FLUEPLC. WOOD SHAKES EXT. 3RD+ FLUEPLC. WOOD SHAKES EXT. 3RD+ FLUEPLC. WOOD SHAKES FINISH OF SHAKES (FINISH OF SHAKE (FINISH)) IST FLOOLOGO SHAKE (FINISH) IST FINISH OF SHAKE (FINISH) IST FLOOLOGO SHAKE (FINISH) IST FINISH OF SHAKE (FINISH OF SHAKE OF SHAKE (FINISH OF SHAKE OF SHAKE (FINISH OF SHAKE OF SHAKE

WOOD SHAKE(FIN WOOD SHAKE(FIN RPLCD, WOOD SHA 0415F14 REFN. WOOD FIN.
0415F20 WOOD FIN. RPLCD. WOOD FIN.
0415F20 WOOD FIN. RPLCD. WOOD FIN.
0415F23 REFN. WOOD FIN.
0415F24 REFN. WOOD FIN.
0415F30 WOOD, FINISH RIPLD. WOOD FIN.
0415F30 WOOD, FINISH WOOD FIN.
0415F33 REFN. WOOD FIN.
0415F34 REFN. WOOD FIN.
0415F35 REFN. WOOD FIN.
0415F30 WOOD SHAKES (UNFINISH REPLC. WOOD SHAKES (UNFINISH REPL. WOOD SHAKES (UNFINISH REPL. WOOD SHAKES (FINISH REPL. WERLING (FINISH REPL. WERLING (FINISH REPL.) (FINISH ALUMINUM SIDING (FINISH A

C415WO PLATE GLASS BLOCK EXT. 3RD FL

C415WO PLATE GLASS EXTERIOR FINISH

C415WO PLATE GLASS EXTERIOR FINISH 1ST FLOOR

C415WO PLATE GLASS EXTERIOR FINISH 1ST FLOOR

C415WO PLATE GLASS EXTERIOR FINISH 1ST FLOOR

C415WO PLATE GLASS EXTERIOR FINISH 2ND LLOOR

C415WO PLATE GLASS EXTERIOR TINISH 2ND LLOOR

C415WO FORMICA - VINIT EXTERIOR FINISH 380+FL

C415WO ASBESTOS EXTERIOR FINISH 380+FL

C415WO SYNTHETIC VENERR FINISH 380+FL

C415WO SYNTHETIC VENERR EXT. FINISH

C415WO SYNTHETIC VENERR EXT. ST FL

C415WO SYNTHETIC

S00 PORCEL 0415800

DESCRIPTION

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U41552 REPAIR PORCELAIN EXT PANELS 2ND FL.

041552 REPAIR PORCELAIN EXT PANELS 2ND FL.

041552 REPAIR PORCELAIN EXT PANELS 2ND FL.

041552 REPAIR PORCELAIN EXT PANELS 2ND FL.

041553 REPAIR PORCELAIN EXT PANELS 2ND FL.

041553 REPAIR PORCELAIN EXT PANELS 2ND FL.

041554 ALUMINUM CORGATO PANELS EXTRING FIN.

041510 ALUMINUM CORGATO PANELS EXTRING FIN.

041510 ALUMINUM CORGATO PANELS EXTRING FIN.

0415110 ALUMINUM CORGATO PANELS EXTRING FIN.

041512 REPAIR ALUMINUM CORR PANELS - FIRST FLOOP

041512 REPAIR ALUMINUM CORR PANELS - SND FLOR

041513 ALUMINUM CORGATO PANELS - SND FLOR

041513 REPAIR ALUMINUM CORR PANELS - SND FLOR

041513 REPAIR ALUMINUM CORR PANELS - SND FLOOR

041513 REPAIR ALUMINUM CORR PANELS - SND FLOOR

041510 EXTERIOR GYPSUM BOARD - PAINTED 1ST FLOOR

041510 EXTERIOR GYPSUM BOARD - PAINTED 1ST FLOOR

041510 EXTERIOR GYPSUM BOARD - PAINTED 1ST FLOOR

041510 EXTERIOR GYPSUM BOARD - PAINTED 2ND FLOOR

041510 EXTERIOR GYPSUM BOARD - PAINTED 3ND FLOOR

041510 EXTERIOR GYPSUM BOARD - PAINTED 3ND FLOOR

041510 EXTERIOR GYPSUM BOARD - COVERED 1ST FLOOR

041510 EXTERIOR GYPSUM BOARD - COVERED 2ND FLOOR

041510 EXTERIOR GY

CT GYP

0415U0 MASON

CACES

DESCRIPTION

0421216 REFIN. REPLACED STEEL (RAIT) EXT. DOOR 0421220 STEEL (WSAFTY GLAS) PAINTED EXT. DOOR 0421220 STEEL (WSAFTY GLAS) PAINTED EXT DOOR 0421222 REPLARS STEEL (SAFTY GLAS) PAINTED EXT DOOR 0421224 REFIN STEEL(SAFTY GLAS) PAINTED EXT DOR 0421225 REPLACE STEEL (SAFTY GLAS) PAINTED EXT DOR 0421230 STEEL SIDING PAINTED EXT DOOR 0421230 STEEL SIDING PAINTED EXT DOOR 0421232 REPLAKE STEEL (SAFTY GLAS) PAINTED EXT DOOR 0421232 REPLAKE STEEL (SAFTY GLAS) PAINTED EXT DOOR 0421232 REPLAKE STEEL (SAFTY GLAS) PAINTED EXT DOOR 0421242 REFIN REPLACED STEEL SIDING PAINTED EXT DOOR 0421342 REFIN STEEL (SAFTY GLAS) PAINTED EXT DOOR 0421342 REFIN STEEL (SAFTY GLAS) PAINTED EXT DOOR 0421343 REPLAKE STEEL (INSUL CORE) PAINTED EXT DOOR 0421342 REFIN STEEL (SAFTY GLAS) UNDAY EXT OCCASION STEEL (UNDAINTED) METAL EXTERIOR DOORS 0421343 REPLAKE STEEL (SAFTY GLAS) UNDAY EXT DOOR 0421350 STEEL (SAFTY GLAS) UNDAY EXT DOOR 0421350 STEEL (SAFTY GLAS) UNDAY EXT DOOR 0421350 STEEL (SAFTY GLAS) UNDAY EXT DOOR 0421353 REPAIR STEEL (SAFTY GLAS) UNDAY EXT DOOR 0421350 REPAIR STEEL (SAFTY GLAS) UNDAY EXT DOOR 0421350 REPAIR STEEL (SAFTY GLAS) UNDAY EXT DOOR 0421351 REPAIR STEEL (SAFTY GLAS) UNDAY EXT DOOR 0421352 REPAIR STEEL (SAFTY GLAS) UNDAY EXT DOOR 042211 REPAIR ALUMINUM EXTERIOR DOORS 042211 REPAIR ALUMINUM EXTERIOR DOORS 042211 REPAIR STEEL (SAFTY GLAS) EXPAINTED EXT DOOR 042221 REPAIR STEEL (SAFTY GLAS) EXPAINTED EXT DOOR 042221 REPAIR STEEL (SAFTY GLAS) EXT DOOR 042221 REPAIR STEEL (SAFTY GLAS) EXT DOOR 042221 REPAIR

042110 ALUMINUM (PLAIN & ANDDIZED)
0421110 ALUMINUM (PLAIN & ANDDIZED)
0421112 REPAIR ALUMINUM (PA) EXTERIOR DOOR
0421115 REPLACE ALUMINUM (PA) EXTERIOR DOOR
0421120 ALUMINUM (PAL) FAME & DOOR
0421121 REPL BRX GLAS-ALUM(SAFTY GLS) PLNEEXT DRX
0421121 REPLACE ALUM (SAFTY GLS) PLNEEXT DRX
0421121 REPLACE ALUM (SAFTY GLS) PLNEEXT DRX
0421131 REPLACE ALUM (SAFTY GLS) PLOOR
0421132 REPLACE ALUM (SAFTY GLS) PLOOR
0421133 REPLACE ALUM SIDING EXT DOOR
0421135 REPLACE ALUM SIDING EXT DOOR
0421140 ALUMINUM SIDING EXT DOOR
0421141 REPLACE ALUM (WOOD CORE) EXT DOOR
0421141 REPLACE ALUM (WOOD CORE) EXT DOOR
0421145 REPLACE ALUM (INSUL) P&A EXT DOOR
0421152 REPLACE ALUM (INSUL) P&A EXT DOOR
0421153 REPLACE ALUM (INSUL) P&A EXT DOOR
0421154 REPLACE ALUM (INSUL) P&A EXT DOOR
0421154 REPLACE ALUM (INSUL) P&A EXT DOOR
0421154 REPLACE ALUM (INSUL) P&A EXT DOOR
0421151 REPLACE ALUM (INSUL) P&A EXT DOOR
0421214 SEPLACE ALUM (INSUL) P&A EXT DOOR
0421213 REPLACE ALUM (INSUL) P&A EXT DOOR
042121 REPAIR STEEL (PAINTED) EXTERIOR DOORS
0421214 REPLACE STEEL (PAINTED) EXTERIOR DOOR
0421214 REPLACE STEEL (PAINTED) EXTERIOR DOOR 0420000 EXTERIOR 0421000 METAL [

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Army Wide Task/Basic Task Structure List

DESCRIPTION

0415W10 MASOWITE PANELS - SEALED 1ST FLOOR
0415W15 REPAIR MASOWITE PANELS - SEALED 1ST FL
0415W15 REPLACE MASOWITE PANELS - SEALED 1ST FL
0415W15 REPLACE MASOWITE PANELS - SEALED 2ND FLOOR
0415W25 REPAIR MASOWITE PANELS - SEALED 2ND FLR
0415W25 REPAIR MASOWITE PANELS - SEALED 2ND FLR
0415W25 REPLACE MASOWITE PANELS - SEALED 2ND FLR
0415W32 REPAIR MASOWITE PANELS - SEALED 3RD FLR
0415W35 REPLACE MASOWITE PANELS - SEALED 3RD FLR
0415W35 REPLACE MASOWITE PANELS - SEALED 3RD FLR
0415W35 REPLACE MASOWITE PANELS - SEALED 3RD FLR
0415W35 REPAIR FIBERGLAS PANELS FILOOR
0415W35 REPAIR FIBERGLAS PANELS - ST FLOOR
0415W37 REFIN REPAIRED FIBERGLAS PANELS BAIL ST FLOOR
0415W37 REFIN REPAIRED FIBERGLAS PANELS RIGID 1ST FLOOR
0415W37 REFIN REPLACED FIBERGLAS PANELS RIGID 2ND FLOOR
0415W25 REPLACE FIBERGLAS PANELS RIGID 2ND FLOOR
0415W26 REFIN REPLACED FIBERGLAS PANELS RIGID 2ND FLOOR
0415W37 REFIN REPAIRED FIBERGLAS PANELS RIGID 2ND FLOOR
0415W37 REFIN REPAIRED FIBERGLAS PANELS RIGID 2ND FLOOR
0415W37 REFIN REPAIRED FIBERGLAS PANELS RIGID 2ND FLOOR
0415W37 REFIN REPLACED FIBERGLAS PANELS RIGID 2ND FLOOR
0415W33 REFIN REPLACED FIBERGLAS PANELS RIGID 3RD FLOOR
0415W33 REFIN REPLACES PANELS RIGID 3RD FLOOR
0415W33 REFIN REPLACES PANELS RIGID 3RD FLOOR
0415W34 REFIN REPLACE PIBRGLAS PANELS RIGID 3RD FLOOR
0415W35 REFIN REPLACED FIBRGLAS PANELS RIGID 3RD FLOOR
0415W35 REFIN REPLACE PIBRGLAS PANELS RIGID 3RD FLOOR
0415W35 REFINELY REPLACED FIBRGLAS PANELS RIGID 3RD FLOOR
0415W35 RIGID 3RD FLOOR
0415W35 RIGID 3RD FLOOR
0415W35 RIGID 3RD FLOOR
0415W35 RIGID

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**DESCRIPTION** 

REFIN REPLACED-FUL GLZED WD SLIDING EXT

0423000 WOOD DOORS
042310 HOLLOW CORE (PAINTED) WOOD EXTERIOR DOOR
0423110 HOLLOW CORE (PAINTED) WOOD EXTERIOR DOOR
0423112 REPAIR HOLLOWCORE (PAINTED) EXT.DOOR
042312 REFINISH HOLLOWCORE SILDING WOOD EXT DR
042312 REFINISH HOLLOW CORE SILDING WOOD EXT DR
042312 REFINISH SOLLOWCORE SILDING WOOD EXT DR
042312 REFINISH SOLLO CORE SILDING WOOD EXT DR
042312 REFINISH SOLLO CORE (PAINTED) EXT.DOOR
042321 REFINISH SOLLO CORE (PAINTED) EXT.DOOR
042322 REPAIR SOLLO CORE (PAINTED) EXT.DOOR
042322 REPAIR SOLLO CORE (PAINTED) EXT.DOOR
042323 SOLLO CORE SILDING WOOD EXT DR
042323 REFINISH REPLACE SOLLO CORE (SAFTY GLAS) PWIT EXT DOOR
042323 REFINISH REPLACE SOLLO CORE (SAFTY GLAS) PWIT EXT DR
042323 REFINISH REPLACED COLLO CORE (SAFTY GLAS) PWIT EXT DR
042323 REFINISH METAL GRATED PAINTED EXT DOOR
042411 REFINISH METAL GRATED PAINTED EXT DOOR
042412 REFAIR METAL GRATED DAINTED EXT DOOR
042410 METAL MESH EXTERIOR DOOR 0423000 WOOD DOORS

0424712 REPAIR METAL WIRE MESH PAINED EXT DOOR 0424214 REFINSH METAL WIRE MESH PAINTED EXT DOOR 0424215 REPLACE METAL WIRE MESH PAINTED EXT DOOR 0424216 REL WIRE MESH PAINTED EXT DOOR 0424220 METAL WIRE MESH UNPAINTED EXT DOOR 0424220 REPAIR METAL WIRE MESH UNPAINT EXT DOOR 0424225 REPLACE METAL WIRE MESH UNPAINT EXT DOOR 0424310 LOUVERED EXT DOOR 0424310 ALUMIUM LOUVERED EXT DOOR 0424313 REFIN REPAIRED ALUM LOUVERED EXT DOOR 0424313 REFIN REPAIRED ALUM LOUVERED EXT DOOR

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0424320 STEEL LOUVERED EXTERIOR DOORS
0424322 REPAIR STEEL LOUVERED EXT DOOR
0424323 REFIN REPAIRED STEEL LOUVERED EXT DOOR
0424323 REFIN REPAIRED STEEL LOUVERED EXT DOOR
0424324 REFINISH STEEL LOUVERED EXT DOOR
0424325 REFIN REPLACED STEEL LOUVERED EXT DOOR
0424332 REPAIR WOOD LOUVERED EXT DOOR
0424333 REFIN REPLACED WOOD LOUVERED EXT DOOR
0424334 REFINISH WOOD LOUVERED EXT DOOR
0424335 REPLACED WOOD LOUVERED EXT DOOR
0424335 REPLACED WOOD LOUVERED EXT DOOR
0424336 REFIN REPLACED WOOD LOUVERED EXT DOOR
0424336 REFIN REPLACED WOOD LOUVERED EXT DOOR
0425000 EXTERIOR GATES REFIN REPLACED ALUM LOUVERED EXT DOOR

0425100 ALUMINUM EXTERIOR GATE
0425101 ALUMINUM EXTERIOR GATE
0425103 REFINISH REPARRED ALUM EXT GATE
0425104 REFINISH REPARRED ALUM EXT GATE
0425105 REFINISH REPLACED ALUM EXT GATE
0425106 REFINISH REPLACED ALUM EXT GATE
0425201 STEEL EXTERIOR GATE
0425203 REPLACE STEEL EXT GATE (WALK & DRIVEWAY)
0425204 REFINISH STEEL EXT GATE (WALK & DRIVEWAY)
0425204 REFINISH STEEL EXT GATE (WALK & DRIVEWAY)
0425206 REFIN REPLACED STEEL EXT GATE (WALK & DRIVEWAY)
0425206 REFIN REPLACED STI EXT GATE (WALK & DRIVE)
0425307 REFINISH WOOD EXT GATE (WALK & DRIVE)
0425308 REFINISH WOOD EXT GATE (WALK & DRIVE)
0425308 REFINISH WOOD EXT GATE (WALK & DRIVE)
0425309 REFINISH WOOD EXT GATE (WALK & DRIVE)
0425309 REFINISH WOOD EXT GATE (WALK & DRIVE)
0425309 REFINISH WOOD EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOD EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOD EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425403 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425404 REFINISH WOOLGHT IRON EXT GATE (WALK & DRIVE)
0425406 REFINISH REPLACE PLASTIC EXTERIOR DOORS
0426406 PLASTIC SCREEN/STORM EXT. DOOR
0426510 PLASTIC SCREEN/STORM EXT. DOOR
0426510 REPLACE PLASTIC EXTERIOR DOORS
0426510 REPLACE PLASTIC EXTERIOR DOORS
0426510 REPLACE ALUMINIUM (PLA) DOOR
0426510 REPLACE STEEL FRAME SINGLE (PNITD) EXT. DOOR
0426710 REPLACE STEEL FRAME SINGLE (PNITD) EXT. DOOR
0427104 REFINISH STEEL FRAME SINGLE (PNITD) EXT. DOOR
0427105 REPLACE STEEL FRAME SINGLE (PNITD) EXT. DOOR
0427105 REPLACE PLASTIC EXTREMENTALIOR PRODORS
0427106 REFINISH STEEL FRAME SINGLE (PNITD) EXT. DOOR
0427106 REFINISH STEEL

STEEL DOUBLE ROLL-UP DOOR
2 REPR.STEEL FRM.DBL.(PNT)EXT.DR

DESCRIPTION

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0431211 BROKEN GLASS:REPLMNT.STEEL FRM.15T FL.
0431212 REENIS STEEL FRM. (PAINT)EXT. JOBUL 1ST FL.
0431214 REENIS STEEL FRM. (PAINT)EXT. JOBUL 1ST FL.
0431216 REFINISH STEEL FRM. (PAINT)EXT. JOBUL 1ST FL.
0431220 STEEL FRM. (PAINT) OPER. WHOW ZND FLOOR
0431222 REFINES STEEL FRM. (PAINT) OPER. WHOW ZND FL.
0431222 REFINES STEEL FRM. (PAINT) OPER. WHOW ZND FL.
0431223 REFINES STEEL FRM. (PAINT) OPER. WHOW SND FLOOR
0431223 REPLACE STEEL FRM. (PAINT) OPER. WHOW SND FLOOR
0431231 REM. CLS. STEEL FRM. (PAINT) OPER. WHOW SND FL.
0431224 REFINES STEEL FRM. (PAINT) OPER. WHOW SND FL.
0431235 REPLACE STEEL FRM. (PAINT) OPER. WHOW SND FL.
0431234 REFINES STEEL FRM. (PAINT) OPER. WHOW SND FL.
0431234 REFINES STEEL FRM. (PAINT) OPER. WHOW SND FL.
0431324 REFINES STEEL FRM. (PAINT) OPER. WHOW SND FL.
0431325 REPLACE STEEL FRM. (PAINT) OPER. WHOW SND FL.
0431326 REFINES WHOO FRM. (PAINT) OPER. WHOW SND FL.
0431326 REFINES WHOO FRM. (PAINT) OPER. WHOW SND FL.
0431320 WOOD FRM. (PAINT) OPER. WHOW SND FL.
0431324 REFINES WOOD FRM. (PAINT) STT. JOB FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REPLACE WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431326 REFINES WOOD FRM. (PAINT) STT. JOB SND FL.
0431420 PLASTIC (WOOD COR) FRM. CREES WOOD SND FRM. (PAINT) STT. JOB SND FL.
0431420 REPLACE PAINT JOB SND FRM. (

042700 ARHINUM SINGLE ROLL-UP BOOR
0427302 ALUMINUM SINGLE ROLL-UP EXT DOOR
0427305 REPAIR ALUM SINGLE ROLL-UP EXT DOOR
0427305 KEFINISH ALUM SINGLE ROLL-UP EXT DOOR
0427305 KEFINISH ALUM SINGLE ROLL-UP EXT DOOR
0427306 ALUMINUM DOUBLE ROLL-UP EXT DOOR
0427400 ALUMINUM DOUBLE ROLL-UP EXT DOOR
0427407 REFINISH ALUM DOUBLE ROLL-UP EXT DOOR
0427406 REFINISH ALUM DOUBLE ROLL-UP EXT DOOR
0427405 REFINISH ALUM DOUBLE ROLL-UP EXT DOOR
0427406 REFINISH ALUM DOUBLE ROLL-UP EXT DOOR
0427502 REPAIR MOOD SINGLE ROLL-UP EXT DOOR
0427504 REFINISH WOOD SINGLE ROLL-UP EXT DOOR
0427504 REFINISH WOOD DOUBLE ROLL-UP EXT DOOR
0427505 REPAIR WOOD DOUBLE ROLL-UP EXT DOOR
0427506 REFINISH WOOD DOUBLE ROLL-UP EXT DOOR
0427607 ALUMINUM (SINGLE LEAF) SPRING GARAGE DR
0427707 REPAIR ALUM(SIL LEAF) SPRING GARAGE DR
0427705 REPAIR ALUM(SIL LEAF) SPRING GAR DOOR
0427705 REFINISH SEPLACED ALUM (SGL LEAF) SPRING GAR DOOR
0427705 REFINISH STEEL (SGL LEAF) SPRING GAR DOOR
0427705 REFINISH STEEL (SGL LEAF) SPRING GAR DOOR
0427706 WOOD (SINGLE LEAF) SPRING GAR DOOR
0427707 REFINISH STEEL (SGL LEAF) SPRING GAR DOOR
0427707 REFINISH STEEL (SGL LEAF) SPRING GAR DOOR
0427706 WOOD (SINGLE LEAF) SPRING GAR DOOR
0427707 REFINISH WOOD (SGL LEAF) SPRING GAR DOOR
0427707 REFINISH WOOD (SGL LEAF) SPRING GAR DOOR
0427707 REFINISH WOOD (SGL LEAF) SPRING GAR DOOR
0427706 REFIN REPLACED WOOD (SGL LEAF) SPRING GAR DOOR
0427706 REFIN REPLACED WOOD (SGL LEAF) SPRING GAR DOOR
0427706 REFIN REPLACED WOOD (SGL LEAF) SPRING GAR DOOR
0427706 REFIN REPLACED WOOD (SGL LEAF) SPRING GAR DOOR
0427706 REFIN REPLACED WOOD (SGL LEAF) SPRING GAR DOOR
0427706 REFIN REPLACED WOOD (SGL LEAF) SPRING GAR DOOR
0427706 WOOD (SINGLE LEAF) SPRING GAR DOOR
0427706 WOOD SINGLE LEAF) SPRING GAR DOOR
0427706 WOOD SINGLE LEAF) SPRING GAR DOOR
0427706 WOOD (SINGLE LEAF) SPRING GARGE DR
0427706 WOOD (SINGLE LEAF)

0430000 EXTERIOR WINDOWS
0431100 ALUMINUM OPERABLE WINDOWS
0431110 ALUMINUM OPERABLE WINDOWS 1ST FLOOR
0431111 BROKEN GLASS:REPLACEMI-ALUM-WND.1ST FL.
043112 BROKEN GLASS:REPLACEMI-ALUM-WND.1ST FL.
0431120 ALUMINUM OPERABLE WINDOW 2ND FLOOR
0431121 BROKEN GLASS:REPLOMI-ALUM-WND.1ST FL.
0431120 ALUMINUM OPERABLE WINDOW 2ND FL.
0431120 ALUMINUM OPERABLE WINDOW 3ND+ FLOOR
0431130 ALUMINUM OPERABLE WINDOW 3ND+ FLOOR
0431131 BROKEN GLASS:REPLOMI-ALUM-STAT-MON-2ND FL.
0431132 REPLACE ALUMINUM EXTERIOR WND. 3ND+FL
0431135 REPLACE ALUMINUM EXTERIOR WDW. 3ND+FL

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CACES

**DESCRIPTION** 

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0432000 ALUMINUM FIXED WINDOW
0432110 ALUMINUM FIXED WINDOW 1ST FLOOR
0432112 REPAIR ALUMINUM FIX.EXT.WDW.1ST FLOOR
0432112 REPLACE ALUMINUM FIX.EXT.WDW.1ST FLOOR
0432121 BRKN.GLS:RPLNNT.ALUM.FIX.EXT.WDW.1ST FLOOR
0432120 ALUMINUM FIXED WINDOW 2ND FLOOR
0432121 BRKN.GLS:RPLNT.ALUM.FIX.EXT.WDW.2ST FL.
0432121 BRKN.GLS:RPLNT.ALUM.FIX.EXT.WDW.2ST FL.
0432123 BRKN.GLS:RPLNT ALUM.FIX.EXT.WDW.2ND FLOOR
0432131 BRKN.GLS:RPLNT ALUM.FIX.EXT.WDW.3RD+FL.
0432132 BREAIR ALUMINUM FIXED EXT.WDW.3RD+FLOOR
0432131 BRKN.GLS:RPLNT ALUM.FIX.EXT.WDW.3RD+FLOOR
0432131 BRKN.GLS:RPLNT ALUM.FIX.EXT.WDW.3RD+FLOOR
043213 BRKN.GLS:RPLNT STEEL FRM(PND)EXT.1ST FL.
0432210 STEEL FRAME (PAINTD) FIXED WINDOW
0432210 STEEL FRAME (PAINT) FIXED WINDOW
0432211 BRKN.GLS:RPLNT.STEEL FRM(PND)EXT.1ST FL.
0432212 REPAIR STEEL FRAME(PNT)EXT.WDW.1ST FL.
0432212 REPAIR STEEL FRAME(PNT)EXT.WDW.1ST FL.
0432213 BRKN.GLS:RPLNT.STEEL FRAME(PNT)EXT.WDW.1ST FL.
0432224 REFIN.STEEL FRAME FIX.EXT.WDW.2ND FLOOR
0432224 REFIN.STEEL FRAME FIX.EXT.WDW.2ND FLOOR
0432234 REFIN.STEEL FRAME FIX.EXT.WDW.2ND FLOOR
0432235 REPLACE STEEL FRAME FIX.EXT.WDW.3RD+FL.
0432235 REPLACE STEEL FRAME FIX.EXT.WDW.3RD+FL.
0432236 STEEL FRAME (PAINT) FIXED WINDOW
0432231 BRKN.GLS:RPLNT.STEEL FRAME FIX.EXT.WDW.3RD+FL.
0432231 BRKN.GL
0431836 REFIN.REPLC.WOOD FRAME(DBL)EXT.WOW.3RD-FIS.
0431900 DOUBLE PANE PLASTIC FRAME OPER.WDW.3RD-FIS.
0431910 DOUBLE PANE PLASTIC FRAME OPER.WDW.15T FL.
0431911 RRKN GLS:RPLMT.PLASTIC(WD.CR.EXT.ST FL.
0431912 REPR.PLAST(WD.CR.)FRM.DBL.EXT.WDW.1ST FL.
0431912 REPR.PLAST(WD.CR.)FRM.DBL.EXT.WDW.1ST FL.
0431921 REPR.PLAST(WD.CR.)FRM.DBL.EXT.WDW.1ST FL.
0431922 REPR.PLAST(WD.CR.)FRM.DBL.EXT.WDW.2ND FL.
0431922 REPR.PLAST(WD.CR.)FRM.DBL.EXT.WDW.2ND FL.
0431925 RPLC.PLAST(WD.CR.)FRM.DBL.EXT.WDW.2ND FL.
0431925 RPLC.PLAST(WD.CR.)FRM.DBL.EXT.WDW.2ND FL.
0431925 RPLC.PLAST(WD.CR.)FRM.DBL.EXT.WDW.3RD FL.
0431932 REPR.PLAST(WD.CR.)FRM.DBL.EXT.WDW.3RD+FL.
0431935 RPLC.PLAST(WD.CR.)FRM.DBL.EXT.WDW.3RD+FL.
0431935 RPLC.PLAST(WD.CR.)FRM.DBL.EXT.WDW.3RD+FL.
0431936 FIXED WINDOWS
                                                0431552 REPLACE GLASS BLOCK EXT. WOW. 2ND FLOOR 0431552 REPLACE GLASS BLOCK EXT. WOW. 2ND FLOOR 0431553 GLASS BLOCK CEXT. WOW. 2ND FLOOR 0431551 GLASS BLOCK CEXT. WOW. 2ND FLOORS 0431630 GLASS BLOCK EXT. WOW. 3RD +FLOORS 0431640 DOUBLE PANE ALUMINUM OPERABLE WINDOW, 1ST FL. 0431610 DOUBLE PANE ALUMINUM OPERABLE WINDOW, 1ST FL. 0431610 DOUBLE PANE ALUMINUM OPERAMUM. STOP FL. 0431610 RRKN. GLS. PEPLMT ALUMINUM OPERAMUM. 2ND FL. 0431620 DOUBLE PANE ALUMINUM OPERAMUM. 2ND FL. 0431621 RRKN. GLS. PEPLMT ALUMINUM OPERAMUM. 2ND FL. 0431621 RRKN. GLS. PEPLMT ALUMINUM OPERAMUM. 2ND FL. 0431622 REPAIR ALUMINUM OPERAMUM. 2ND FL. 0431623 REPAIR ALUMINUM ODERED EXT. WOW. 1ST FL. 0431627 REPAIR ALUMINUM ODERED EXT. WOW. 1ST FL. 0431627 REPAIR STEEL PRANCED EXT. WOW. 1ST FL. 043171 REPAIR STEEL PRANCED EXT. WOW. 1ST FL. 043171 REPAIR STEEL PRANCED EXT. WOW. 1ST FL. 043172 REPAIR STEEL PRANCED EXT. WOW. 1ST FL. 043172 REPAIR STEEL FRANCED EXT. WOW. 1ST FL. 043172 REPAIR STEEL FRANCED EXT. WOW. 1ST FL. 043172 REPAIR STEEL FRANCED EXT. WOW. 2ND FL. 043172 REPAIR STEEL FRANCED EXT. WOW. 3RD+FL. 043181 REPAIR STEEL FRANCED EXT. WOW. 2ND FL. 043172 REPAIR WOOD FRANCED EXT. WOW. 2ND FL. 043181 REPAIR STEEL FRANCED EXT. WOW. 2ND FL. 043182 REPAIR WOOD FRANCED EXT. WOW. 2ND FL. 043182 REPAIR WOOD FRANCED
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0.432716 REFLICE STEEL FRM(DBL)FIX.EXT.WDW.1ST FLP.
0.432715 REPLICE STEEL FRM(DBL)FIX.EXT.WDW.1ST FLP.
0.432715 REPLICE STEEL FRM(DBL)FIX.EXT.WDW.1ST FLP.
0.432720 DOUBLE PAME STEEL FRM(DBL)FIX.EXT.WDW.2ND FLP.
0.432721 BRKN.GLS:RPLMT.STEEL FRM(DBL)FIX.EXT.WDW.2ND FLP.
0.432722 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.2ND FLP.
0.432726 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.2ND FLP.
0.432736 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.2ND FLP.
0.432737 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.2ND FLP.
0.432737 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.2ND FLP.
0.432736 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432737 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432736 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432737 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432737 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432736 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432736 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432737 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432737 REPLICE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432810 DOUBLE PAME WOOD FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.432812 REFAIR WOOD FRM(DBL)FIX.EXT.WDW.3RD FLC.
0.432813 RRFN.RLG.SREPLMT.WOOD FRM(DBL)FIX.EXT.WDW.3RD FLC.
0.43282 REPLICE.WOOD FRM(DBL)FIX.EXT.WDW.3RD FLC.
0.43282 REPLICE.WOOD FRM(DBL)FIX.EXT.WDW.3RD FLC.
0.43283 REPLICE.WOOD FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0.43283 REPLICE.WDS.RDW.3RD+FLS.
0.43283 REPLICE.WDS.RDW.3RD+FLS.
0.43283 REPLICE.

#PLC 0433100 LOUVERS ANL 0433100 LOUVERS A 0433110 LV 0433000

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Army Wide Task/Basic Task Structure List

0.43232 RRAIL SLESPLHT. JODG FRAM: TIX. EXT. 200 FLR. 0.43232 RRAIL SLESPLHT. JODG FRAM: FIX. EXT. 200 FLR. 0.43232 RREPAIR WOOD FRAME FIX. EXT. JODG FLR. 0.43232 RREPAIR WOOD FRAME FIX. EXT. JODG FLR. 0.43232 RREPAIR WOOD FRAME FIX. EXT. JODG FLR. 0.43233 BRKN GLS. RPLING WOOD FRAME FIX. EXT. JODG FLR. 0.43233 BRKN GLS. RPLING WOOD FRAME FIX. EXT. JODG FLR. 0.43233 BRKN GLS. RPLING WOOD FRAME FIX. EXT. JODG FLR. 0.43233 BRKN GLS. RPLING WOOD FRAME FIX. EXT. JODG FLR. 0.43234 REFINISH WOOD FRAME FIX. EXT. JODG JRD FLR. 0.43234 RREINISH WOOD FRAME FIX. EXT. JODG JRD FLR. 0.43241 BRKN GLS. RPLING LAND FIXED WINDOW. JRD FLR. 0.432410 PLASTIC (WOOD FRAM) FIXED WINDOW. JRD FLR. 0.43242 BRKN GLS. RPLING LAND FIXED WINDOW. JRD FLR. 0.43242 BRKN GLS. RPLING LAND FIXED WINDOW. JRD FLR. 0.43242 BRKN GLS. RPLING LAND FIXED WINDOW. JRD FLR. 0.43242 BRKN GLS. RPLING LAND FIXED WINDOW. JRD FLR. 0.43242 BRKN GLS. RPLING CR. PRM. FIX. EXT. JODG JRD FLR. 0.43242 BRKN GLS. RPLING CR. PRENTICK EXT. JODG. 200 FLR. 0.43242 BRKN GLS. RPLING CR. PRENTICK EXT. JODG. 200 FLR. 0.43243 BRKN GLS. RPLING CR. PRENTICK EXT. JODG. 200 FLR. 0.43243 BRKN GLS. RPLING CR. PRM. FIX. EXT. JODG. 200 FLR. 0.43243 BRKN GLS. RPLING CR. PRENTICK EXT. JODG. 200 FLR. 0.43243 BRKN GLS. RPLING LAND GRAND SERVING CR. FIXED WINDOW. JRD FLR. 0.43243 BRKN GLS. RPLING LAND GLS. 0.43250 GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43251 GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43252 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BLOCK FIX. EXT. JODG. 300 FLR. 0.43253 GREPAIR GLASS BL

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**DESCRIPTION** 

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0433414 REFINISH WOOD SHUTTER (FRAMED) 1ST FLOOR 0433415 REPLACE WOOD SHUTTER (FRAME) 1ST FLOOR 0433420 WOOD SHUTTER WITH FRAME 2ND FLOOR 0433420 WOOD SHUTTER WITH FRAME 2ND FLOOR 0433422 REPLAR WOOD SHUTTER (FRAME) ZND FLOOR 0433422 REPLAR WOOD SHUTTER (FRAME) ZND FLOOR 0433422 REPLAR WOOD SHUTTER (FRAME) ZND FLOOR 0433428 REFIN. REPLO. WOOD SHUTTER (FRAMED) ZND FLOOR 0433432 REFIN. REPLO. WOOD SHUTTER (FRAMED) TST FLOOR 0433432 REFIN. REPLO. WOOD SHUTTER (FRAMED) TST FLOOR 0433512 REPLAR ALUMINUM SHUTTER (FRAMED) TST FLOOR 0433512 REFIN. REPLO. ALUMINUM SHUTTER (FRAMED) TST FLOOR 0433513 REFIN. REPLOC. ALUMINUM SHUTTER (FRAMED) SND FLOOR 043350 STEEL SHUTTER (FRAMED) SND FLOOR 043350 STEEL SHUTTER (FRAMED) SND FLOOR 043350 REFIN. REPLOC. STEEL SHUTTER (FRAME) SND FLOOR 043350 STEEL SHUTTER (F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0434000 W
043316 REFIN REPLACD WOOD LOUVER IN FRAME 2ND FLOOR
0433122 REPAIR WOOD LOUVER IN FRAME 2ND FLOOR
0433122 REPLAIR WOOD LOUVER IN FRAME 2ND FLOOR
0433123 REFIN REPLACE WO LOUVER IN FRAME 2ND FLOOR
0433123 REFIN REPLACE WO LOUVER IN FRAME 2ND FLOOR
0433133 REFIN REPLACE WO LOUVER IN FRAME 3ND FLOOR
0433133 REFIN REPLACE WOD LOUVER IN FRAME 3ND FLOOR
0433133 REFIN REPLACE WOD LOUVER IN FRAME 3ND FLOOR
0433133 REFIN REPLACE WOD LOUVER IN FRAME 3ND FLOOR
0433134 REFINISH MOD LOUVER IN FRAME 3ND FLOOR
0433210 ALUMINUM LOUVER IN FRAME 1ST FLOOR
0433213 REFIN REPLACE ALUM LOUVER IN FRAME 1ST FLOOR
0433213 REFIN REPLACE ALUM LOUVER IN FRAME 1ST FLOOR
0433213 REFIN REPLACE ALUM LOUVER IN FRAME 1ST FLOOR
0433213 REFIN SHEPLACE ALUM LOUVER IN FRAME 1ST FLOOR
0433221 REFINISH ALUM LOUVER IN FRAME 1ST FLOOR
0433221 REFINISH REPLACE ALUM LOUVER (RAMED) 2ND FLOOR
0433222 REFINISH REPLACE ALUMINUM LOUVER (RAMED) 2ND FLOOR
0433223 REFINISH REPLACE ALUMINUM LOUVER (RAMED) 2ND FLOOR
0433234 REFINISH REPLACE ALUMINUM LOUVER (RAMED) 2ND FLOOR
0433235 REFINISH REPLACE ALUMINUM LOUVER (RAMED) 2ND FLOOR
0433235 REFINISH REPLACE ALUMINUM LOUVER (RAMED) 3ND FLOOR
0433230 STEEL LOUVER (RAMED) 1ST FLOOR
0433323 REFINISH STEEL LOUVER (RAMED) 2ND FLOOR
0433334 REFINISH STEEL LOUVER (RAMED) 2ND FLOOR
0433335 REFINISH REPLACE SITEL LOUVER (RAMED) 2ND FLOOR
0433335 REFINISH RE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R WITH FRAME 1ST FLOOR
OOD SHUTTER (FRAMED) 1ST FLOOR
REPRD.WOOD SHUTTER (FRM)1ST FL
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0434410 METAL WINDOW GRATINGS 1ST FLCCK
0434410 METAL WINDOW GRATINGS 1ST FLOOR
0434412 REFINISH METAL WINDOW GRATING 1ST FLOOR
0434420 METAL WINDOW GRATING ST FLOOR
0434420 METAL WINDOW GRATING ST FLOOR
0434420 METAL WINDOW GRATING SUD FLOOR
0434420 METAL WINDOW GRATING SUD FLOOR
0434420 METAL WINDOW GRATING SUD FLOOR
0434420 REFINISH METAL WINDOW GOVER 1ST FLOOR
0434420 REFINISH METAL MESH WINDOW COVER 1ST FLOOR
0434510 REFAIR RETAL MESH WINDOW COVER 1ST FLOOR
0434510 REFINISH METAL MESH WINDOW COVER 1ST FLOOR
0434520 REFINISH METAL MESH WINDOW COVER 3RD FLOOR
0434520 REFINISH METAL MESH WINDOW COVER 3RD FLOOR
0434530 REFINISH METAL MESH WINDOW COVER 3RD FLOOR
0434510 REPAIR ALUMINUM FRAME SCREEN 1ST FLOOR
0434510 REPAIR ALUMINUM FRAME SCREEN 1ST FLOOR
0434510 REFINISH METAL MESH WINDOW COVER 3RD FLOOR
0434510 REPAIR ALUMINUM FRAME SCREEN 1ST FLOOR
0434510 REFINISH METAL MESH WINDOW COVER 3RD FLOOR
0434510 REPAIR REPLICED ALUMINUM FRAME SCREEN 1ST FLOOR
0434510 REFINISH METAL MESH WINDOW COVER 3RD FLOOR
0434510 REFINISH METAL MESH WINDOW COVER 3RD FLOOR
0434510 REFINISH METAL MESH W REFIN.REPLCD.WOOD FRM.STORM WIN.3RD FLR

0434112 REPAIR ALUMINM FRM. STORM WIND. 1ST FL.
0434114 REFINES ALUMINM FRM. STORM WIND. 1ST FL.
0434116 REFINES ALUMINM FRM. STORM WIND. 1ST FL.
0434120 ALUMINUM FRM. STORM WIND. 1ST FLR.
0434121 REPAIR ALUMINUM FRM. STORM WIND. STOR.
0434122 REPAIR ALUMINUM FRM. STORM WIND. 2ND FL.
0434122 REFINES ALUMINUM FRM. STORM WIND. 2ND FL.
0434124 REFINES ALUMINUM FRM. STORM WIND. 2ND FL.
0434132 REFINES ALUMINUM FRM. STORM WIND. 2ND FL.
0434130 ALUMINUM FRM. STORM WIND. 2ND FL.
0434131 REFINES ALUMINUM FRM. STORM WIND. 2ND FL.
0434132 REFAIR ALUMINUM FRM. STORM WIND. 3ND FL.
0434210 STEEL FRAME STORM WINDOWS STOR.
0434210 STEEL FRAME STORM WINDOW STOR.
0434220 STEEL FRAME STORM WINDOW STOR.
0434230 REFINES STEEL FRAME STORM WINDOW STOR.
0434230 REPAIR STEEL FRAME STORM WINDOW STOR.
0434230 REPAIR STEEL FRAME STORM WINDOW STOR.
0434230 WOOD FRAME STORM WINDOW STORM WINDOW STOR.
0434230 WOOD FRAME STORM WINDOW STORM WINDOW STOR.
0434310 WOOD FRAME STORM WINDOW STORM WINDOW STORM UNDOW STORM WINDOW S

Army Wide Task/Basic Task Structure List

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0434724 REFINISH STEEL FRAME SCREEN COVER 2ND FIR. 0434724 REFINISH STEEL FRAME SCREEN COVER 2ND FIR. 0434726 REFINISH STEEL FRAME SCREEN COVER 2ND FIR. 0434726 REFINISH STEEL FRAME SCREEN COVER 2ND FIR. 0434730 STEEL FRAME SCREEN COVER 2ND FIR. 0434730 STEEL FRAME SCREEN COVER 3RD FIL. 0434732 REFINISH STEEL FRAME SCREEN COVER 3RD FIL. 0434732 REFINISH STEEL FRAME SCREEN COVER 3RD FIL. 0434736 REFINISH STEEL FRAME SCREEN COVER 3RD FIL. 0434736 REFINISH STEEL FRAME SCREEN COVER 3RD FIL. 0434736 REFINISH STEEL FRAME SCREEN COVER 1ST FLOOR 0434810 WOOD FRAME SCREEN WINDOW COVER 1ST FLOOR 0434815 REPLACE WOOD FRAME SCREEN COVER 1ST FLOOR 0434815 REPLACE WOOD FRAME SCREEN COVER 1ST FLOOR 0434816 REFINISH WOOD FRAME SCREEN COVER 1ST FLOOR 0434820 WOOD FRAME SCREEN COVER 2ND FLOOR 0434830 REPLACE WOOD FRAME SCREEN COVER 3RD FLOOR 0434830 REPLACE WOOD FRAME SCREEN COVER 3RD FLOOR 0434830 REPLACE WOOD FRAME SCREEN COVER 3RD FLOOR 0434830 REFINISH WOOD FRAME SCREEN COVER 3RD FLOOR 0434910 READ-LINED WINDOW 1ST FLOOR 0434910 REFINISH LEAD-LINED WINDOW 1ST FLOOR 0434910 REFINISH LEAD-LINED WINDOW 1ST FLOOR 043491 REFINISH LEAD-LINED WINDOW 2ND FLOOR 043492 REFINISH LEAD-LINED WINDOW 2ND FLOOR 043493 REFINISH LEAD-LINED WINDOW 3RD FLOOR 043493 REFI

0440000 EXTERIOR PORCHES 0441000 DECKS 0441100 CONCRETE DECI

**DESCRIPTION** CACES

0441203 REFINISH REPAIRED WOOD DECKING EXTERIOR PORCH
0441204 REFINISH WOOD DECKING EXTERIOR PORCH
0441206 REFINISH WOOD DECKING EXTERIOR PORCH
0441300 METAL DECKING-PORCH
0441303 REFINISH REPAIRED METAL DECKNIG EXTERIOR PORCH
0441303 REFINISH METAL DECKING EXTERIOR PORCH
0441303 REFINISH REPAIRED METAL DECKNIG EXTERIOR PORCH
0441304 REFINISH REPAIRED METAL DECKNIG EXTERIOR PORCH
0441305 REFINISH REPAIRED METAL DECKNIG EXTERIOR PORCH
0441305 REFINISH REPAIRED METAL DECKNIG EXTERIOR PORCH
0442103 REPAIR WROUGHT IRON RAILING EXT. PORCH
0442104 REFINISH REPAIRED WOOD RAILING EXT. PORCH
0442205 REFINISH REPAIRED WOOD RAILING EXT. PORCH
0442305 REFINISH REPAIRED WOOD RAILING EXT. PORCH
0442305 REFINISH REPAIRED WOOD RAILING EXT. PORCH
0442305 REPLACE STEEL (METAL) PHT RAIL. EXT. PORCH
0442305 REPLACE STEEL (METAL) PHT RAIL. EXT. PORCH
0442305 REPLACE STEEL (METAL) PHT RAIL. EXT. PORCH
0442306 REFINISH REPAIRED WOOD SUPPORTS EXTRENCE PORCH
0442306 REFINISH REPAIRED CONCR. SUPPORTS
0443102 REPLACE CONCRETE SUPPORTS EXTRENCE PORCH
0442306 REFINISH REPAIRED WOOD SUPPORTS EXTRENCE PORCH
0443306 REFINISH REPAIRED WOOD SUPPORTS EXTRENCE POR

R WOOD DECKING EXTERIOR PORCH 0441202

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Army Wide Task/Basic Task Structure List

0443405 REPLACE STEEL(METAL)EXT. PORCH SUPPORTS
0444000 COLUMNS
0444102 METAL EXTERIOR PORCH COLUMNS
0444102 REPAIR METAL COLUMN EXTERIOR PORCH
0444103 REFINISH REPAIRED METAL COLUMN EXTERIOR PORCH
0444104 REFINISH METAL COLUMN EXTERIOR PORCH
0444105 REFINISH METAL COLUMN EXTERIOR PORCH
0444105 REFINISH METAL COLUMN EXTERIOR PORCH
0444200 REFINISH REPAIRED METAL COLUMNS
0444200 REFINISH REPAIRED WOOD COLUMN EXT. PORCH
0444203 REFINISH WOOD COLUMN EXTERIOR PORCH
0444204 REFINISH WOOD COLUMN EXTERIOR PORCH
0444204 REFINISH WOOD COLUMN EXTERIOR PORCH
0444206 REFINISH REPAIRED WOOD COLUMN EXT. PORCH
0444300 CLAY BRICK EXTERIOR PORCH
0444303 REFINISH CLAY BRICK COLUMN EXTERIOR PORCH
0444304 REFINISH CLAY BRICK COLUMN EXTERIOR PORCH
0444304 REFINISH CLAY BRICK COLUMN EXTERIOR PORCH
0444304 REFINISH CLAY BRICK COLUMN EXT. PORCH
0444306 REPLACE CLAY BRICK COLUMN EXT. PORCH
0444306 REPLACE CLAY BRICK COLUMN EXT. PORCH
0444306 REFINISH CLAY BRICK COLUMN EXTERIOR PORCH
0444306 REFINISH CLAY BRICK COLUMN EXT. PORCH
0444306 REFINISH CLAY BRICK COLUMN EXTRENOR PORCH
0444306 REFINISH CLAY BRICK COLUMN EXT. PORCH

0462100 CONCRETE EXTERIOR STEPS
0462100 REPAIR CONCRETE STEPS EXTERIOR STAIR
0462200 WOOD EXTERIOR STEPS
0462200 WOOD EXTERIOR STEPS
0462200 WOOD EXTERIOR STEPS
0462200 REPAIR WOOD STEPS EXTERIOR STAIR
0462203 REFINISH REPAIR WOOD STEPS EXTERIOR STAIRS
0462204 REFINISH WEDALACE WOOD STEPS EXTERIOR STAIRS
0462206 REFINISH REPAIR STEPS
0462206 REFINISH REPAIRED WETAL STEPS EXTERIOR STAIR
0462300 REFAIR WETAL STEPS EXTERIOR STAIR
0462300 REFINISH REPAIRED WETAL STEPS EXT. STAIR
0462305 REFINISH REPAIRED WETAL STEPS EXT. STAIR
0462305 REFINISH REPAIRED WETAL STEPS EXT. STAIR
0462305 REFINISH REPAIRED WITAL STEPS EXT. STAIR
0462306 REFINISH REPAIRED WITAL STEPS EXT. STAIR
0462306 REFINISH REPAIRED WITAL STEPS EXT. STAIR
0462306 REFINISH REPAIRED WITAL STEPS EXT. STAIR
0462506 REFINISH RASONRY STEP OUNPAINTED EXT. STAIR
0462507 REFINISH MASONRY STEP PAINTED EXT. STAIR
0462506 REFINISH MASONRY STEPS PAINTED EXT. STAIR
0462506 REFINISH MASONRY STEPS PAINTED EXT. STAIR
0462506 REFINISH RASONRY STEPS PAINTED EXT. STAIR
0462500 QUARRY TILE STEPS EXTERIOR STAIR
0462600 QUARRY TILE STEPS EXTERIOR STAIR
0462605 REPAIR RASONRY TILE STEPS EXTERIOR STAIR

0470000 EXTERIOR HARDWARE 0471000 HINGE 0471100 BRASS EXTERIOR

0460000 EXTERIOR STAIRS
0461000 EXTERIOR STAIR RAILINGS
0461000 WOOD EXTERIOR STAIR RAILINGS
0461102 REPAIR WOOD RAILINGS EXTERIOR STAIRS
0461104 REFINISH WOOD RAILING EXTERIOR STAIRS
0461104 REFINISH REPAIRED WOOD RAILING EXTERIOR
0461105 REPLACE WOOD RAILING EXTERIOR STAIRS
0461200 METAL EXTERIOR STAIR RAILING
0461201 REPAIR METAL RAILING EXTERIOR STAIR
0461202 REPAIR METAL RAILING EXTERIOR STAIR
0461203 REFINISH REPAIRED METAL RAILING EXTERIOR
0461205 REFINISH REPLACED METAL RAILING
0461205 REFINISH REPLACED METAL RAILING
0461205 REFINISH REPLACED METAL RAILING
0461300 WRUNGHT IRON EXT. STAIR RAILING
0461303 REFINISH WROUGHT IRON EXT. STAIR RAILING
0461304 REFINISH WROUGHT IRON EXT. STAIR RAILING
0461305 REPLACE WROUGHT IRON EXT. STAIR RAILING
0461306 REFINISH STEEL (METAL) UNDNID.EXT. STAIR RAILING
0461400 STEEL (METAL) UNDNID.EXT. STAIR RAILING
0461400 STEEL (METAL) UNDNID.EXT. STAIR RAILING
0461405 REPAIR STEEL (METAL) UNDNID.EXT. STAIR RAILING

0500000 INTERIOR CONSTRUCTION

0510000 INTERIOR PARTITIONS-FIXED 0511000 DRYWALL 0512000 MASO4RY 0513000 CONCRETE

0520000 INTERIOR PARTITIONS-MOVABLE 0521000 MOVABLE METAL PARTITIONS

0450000 EXTERIOR ORNAMENT 0451000 CORNICES O451100 CTTTES

0451100 STONE EXTERIOR CORNICE EXTERIOR ORNAMENT 0451102 REPAIR STONE CORNICE EXTERIOR ORNAMENT 0451105 REPLACE STONE CORNICE EXTERIOR ORNAMENT 0451200 WOOD EXTERIOR CORNICE EXTERIOR ORNAMENT 0451203 REFINISH WOOD CORNICE EXTERIOR ORNAMENT 0451204 REFINISH WOOD CORNICE EXTERIOR ORNAMENT 0451205 REPLACE WOOD CORNICE EXTERIOR ORNAMENT 0451206 REFINISH REPLACED WOOD CORNICE EXTERIOR ORNAMENT 0451206 REFINISH REPLACED WOOD CORNICE EXTERIOR ORNAMENT

DESCRIPTION

0531331 BRKN.GLS.RPLMT.ALUMIN.SLIDING INTER.DOOR 0531332 REPAIR ALUMINUM SLIDING INTERIOR DOOR 0531335 REPLACE ALUMINUM SLIDING INTERIOR DOOR 0531345 REPLACE ALUMINUM (WOOD CORE) PLN.&ANZD. INT.DOOR 0531342 REPAIR ALUMINUM (WOOD CORE) INTER. DOOR 0531345 REPLACE ALUMINUM (WOOD CORE) INTER. DOOR 0531345 REPLACE ALUMINUM (WOOD CORE) INTER. DOOR 0531354 REPAIR ALUMINUM (INSULATED CORE) INTER. DOOR 0531354 BRKN.GLS.RPLMT.ALUMIN.(INSU.CORE) INT.DOOR 0531355 REPLACE ALUMINUM (INSI.CORE) P&AN.INT.DOOR 0531355 REPLACE ALUMINUM (INSI.CORE) P&AN.INT.DOOR 0531355 REPLACE ALUMINUM (INSI.CORE) P&AN.INT.DOOR

053210 ALUMINUM RAME INTERIOR DOOR
0532110 ALUMINUM RAME INTERIOR DOOR
0532110 ALUMINUM RAME INTERIOR DOOR
0532110 ALUMINUM RAME INTERIOR DOOR
0532112 BRENA GLUB ALUM FULL GLASS FRM INT DOOR
0532120 ALUMINUM FRAME SLIDING INTERIOR DOOR
0532120 ALUMINUM FRAME SLIDING INTERIOR DOOR
05321212 REPAIR ALUMIN FULL GLS. SLIDING INT. DOOR
0532212 REPAIR ALUMIN FULL GLS. SLIDING INT. DOOR
0532210 MOOD FRAME PAINTED INTERIOR DOOR
0532210 REFINISH WOOD FULL GLS. FRAMED INTER. DOOR
0532210 MOOD FRAME PAINTED SLIDING INT. DOOR
0532220 MOOD FRAME PAINTED SLIDING INTER. DOOR
0532220 MOOD FULL GLS. FRAMED INTER. DOOR
0532220 MOOD FULL GLS. FRAMED INTER. DOOR
0532221 REFINISH WOOD FULL GLS. FRM. INTER. DOOR
0532220 MOOD FULL GLS. FRM. SLIDING INT. DOOR
0532221 REFINISH WOOD FULL GLS. SLIDING INT. DOOR
0532221 MOOD FULL GLS. FRM. SLIDING INT. DOOR
053222 REFINISH WOOD FULL GLS. SLIDING INTER. DOOR
053222 REFINISH WOOD FULL GLS. SLIDING INTER. DOOR
0533210 HOLLOW CORE (PAINTED) INTERIOR DOOR
053311 REFINISH HOLLOW CORE PAINTED INTER. DOOR
053312 REFINISH HOLLOW CORE PAINTED INTER. DOOR
053312 REFINISH HOLLOW CORE SLIDING INTER. DOOR
053312 REFINISH HOLLOW CORE PAINT. INTERIOR DOOR
053312 REFINISH SOLID CORE PAINT. INTERIOR DOOR
053312 REFINISH SOLID CORE PAINT. INTERIOR DOOR
053314 REFINISH SOLID CORE PAINT. INTERIOR DOOR
053314 REFINISH SOLID CORE PAINT. INTERIOR DOOR
053314 REFINISH SOLID CORE PAI

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0534414 REFINISH MEIAL MESH PAINT INTERIOR DOOR
0534416 REFIN.REPICD.METAL MESH PAINT. INTERIOR DOOR
0534416 REFIN.REPICD.METAL WISH PAINT. INT. DOOR
0534422 REPAIR METAL WISH MESH PAINTED DOOR
0534422 REPAIR METAL WISH MESH DOOR
0534422 REPAIR METAL WISH MESH UNPAINTED DOOR
0534425 REPLACE METAL MESH UNPAINTED DOOR
0534425 REPLACE METAL MESH UNPAINTED DOOR
0535100 STEEL SINGLE ROLL-UP INTER. DOOR
0535104 REFINISH STEEL SINGLE ROLL-UP INTER. DOOR
0535105 REFINISH STEEL SINGLE ROLL-UP INTER. DOOR
0535106 REFINISH STEEL DOUBLE ROLL-UP INT. DOOR
0535200 STEPLACE STEEL SINGLE ROLL-UP INT. DOOR
0535200 STEPLACE STEEL DOUBLE ROLL-UP INT. DOOR
0535200 REPLACE STEEL DOUBLE ROLL-UP INT. DOOR
0535200 REPLACE STEEL DOUBLE ROLL-UP INT. DOOR
0535204 REFINISH STEEL DOUBLE ROLL-UP INT. DOOR
0535304 REFINISH STEEL DOUBLE ROLL-UP INT. DOOR
0535305 REPLACE ALUMINUM SINGLE ROLL-UP INT. DOOR
0535306 REFIN.REPRD. STEEL DOUBLE ROLL-UP INT. DOOR
0535306 REFIN.REPLO.ALUM. SNGL.ROLL-UP INT. DOOR
0535306 REFIN.REPLO.ALUM. SNGL.ROLL-UP INT. DOOR
0535306 REFIN.REPLO.ALUM. DOUBLE ROLL-UP INT. DOOR
0535306 REFIN.REPLO.ALUM. DOUBLE ROLL-UP INT. DOOR
0535506 REFIN.REPLO.WOOD SINGLE ROLL-UP INT. DOOR
0535507 REPLACE ALUMINUM DOUBLE ROLL-UP INT. DOOR
0535507 REPLACE WOOD DOUBLE ROLL-UP INT. DOOR
0535507 REPLACE WOOD DOUBLE ROLL-UP INTER. DOOR
0535507 REPLACE WOOD DOUBLE ROLL-UP INTER. DOOR
0535507 REPLACE WOOD DOUBLE ROLL-UP INTER. DOOR
0535507 REPLACE WOOD DOUBLE ROLL-UP INT. DOOR
0535507 REPLACE WOOD DOUBLE ROLL-UP INTER. DOOR
0535507 REPLACE WOOD DOUBLE ROLL-UP INT. DOOR
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                                                                                                                                                         DESCRIPTION
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                                                                                                                                                                                                                                                                  0532226 REFIGES SOLID CORE SLIDING PRIT INT. DOOR 0532226 REFIGES SOLID CORE SLIDING PRIT INT. DOOR 0532226 REFIGES SOLID CORE SLIDING INT.DOOR 053223 REFIGES REPLASELY GLASS) (PRID) INT. DOOR 053223 REFIGES RELIGIO CORE (SAFETY) PAINT. INT. DOOR 053223 REFIGES SOLID CORE (SAFETY) PAINT. INT. DOOR 0532410 BANELED DOOR 0534211 REPLACE SOLID CORE (SAFETY) PAINT. INT. DOOR 0534110 RANELED DOOR 0534113 REFINISH REND. PAINTED INTERIOR DOOR 0534113 REFINISH REND. PAINTED INTERIOR DOOR 053412 REFINISH REND. COUVERED INT. BI-FOLD DOOR 053412 REFINISH REND. COUVERED INT. BI-FOLD DOOR 053412 REFINISH REND. COUVERED INT. BI-FOLD DOOR 053412 REFINISH REPOLLOUVERD INTERIOR DOOR 053412 REFINISH REPOLLOUVERD INTERIOR DOOR 053412 REFINISH LOUVERD (PAINTED) INTERIOR DOOR 053412 REFINISH LOUVERD (PAINTED) INTERIOR DOOR 053412 REFINISH LOUVERD (PAINTED) INTERIOR DOOR 053412 REFINISH COUVERD (PAINTED) INTERIOR DOOR 053412 REFINISH LOUVERD (PAINTED) INTERIOR DOOR 053412 REFINISH LOUVERD (PAINTED) INTERIOR DOOR 053421 REFINISH LOUVERD INTERIOR DOOR 053421 REFINISH LOUVERD INTERIOR DOOR 053421 REFINISH PAINTEN COUVERD INTERIOR DOOR 053421 REFINISH PAINTEN COUVERD INTERIOR DOOR 053422 REFINISH STELL LOUVER INTERIOR DOOR 053422 REFINISH STELL LOUVER INTERIOR DOOR 053423 REFINISH WOOD LOUVER INTERIOR DOOR 053423 REFINISH STELL DOOR COUVER INTERIOR DOOR 053423 REFINISH STELL DOOR COUVER INTERIOR DOOR 053423 REFINISH STELL DOUGH COUVER INTERIOR DOOR 053423 REFINISH STELL DOUGH COUVER INTERIOR DOOR 053423 REFINISH STELL DOUGH COUVER INTERIO
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0534315 REPLACE STEEL VAULT INTERIOR DOOR
0534320 METAL WALK IN INTERIOR COCLER DOOR
0534320 REPAIR METAL WALK-IN COCLER INTER. DOOR
0534325 REPLACE METAL WALK-IN COCLER INTER. DOOR
0534330 LEAD-LINED (WOOD) MEDICAL INTERIOR DOOR
0534332 REPAIR LEAD-LINED(WOOD)MEDICAL INTERIOR DOOR
0534332 REPAIR LEAD-LINED(WOOD)MEDICAL INT. DOOR
0534332 REPAIR LEAD-LINED (WOOD)MEDICAL INT. DOOR
0534336 REPAIR LEAD-LINED (WOOD)MEDICAL INT. DOOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ERIOR DOOR
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0561202 REPAIR METAL TRIM - INTERIOR ORNAMENT 0561203 REFINISH REPAIRED METAL TRIM-INTER.ORNAMENT 0561204 REFINISH METAL TRIM - INTERIOR ORNAMENT 0561205 REPLACE METAL TRIM - INTERIOR ORNAMENT 0561205 REFIN.REPLC.METAL TRIM-INTERIOR ORNAMENT 0561302 REPAIR TERRAZZO TRIM - INTERIOR ORNAMENT 0561305 REPLACE TERRAZZO TRIM - INTERIOR ORNAMENT 0561405 CERAMIC TRIMMING 0561405 REPLACE CERAMIC TRIM - INTERIOR ORNAMENT 0561405 REPLACE CERAMIC TRIM - INTERIOR ORNAMENT 0561600 RUBBER Y VINYL TRIMMING 0561600 RUBBER TRIM - INTERIOR ORNAMENT 0561600 RUBBER TRIM - INTERIOR ORNAMENT 0561605 REPAIR RUBBER TRIM - INTERIOR ORNAMENT 0561605 REPAIR RUBBER TRIM - INTERIOR ORNAMENT

0570000 INTERIOR STAIRS 0571000 RAILINGS

0552102 REPAIR WOOD MANTEL - FIREPLACES
0552103 REFINISH REPAIRED WOOD MANTEL FIREPLACE
0552105 REFINISH REPLACED WOOD MANTEL FIREPLACE
0552105 REFINISH REPLACED WOOD MANTEL - FIREPLACE
0552200 CONCRETE MANTEL - FIREPLACE
0552200 CONCRETE MANTEL - FIREPLACE
0552200 SEPAIR CONCRETE MANTEL - FIREPLACE
0552300 STOWE MANTEL - FIREPLACE
0552300 STOWE MANTEL - FIREPLACE
0552300 FINISH REPLACE CONCRETE MANTEL - FIREPLACE
0552300 FINISHS REPLACE - FIREPLACE
0552300 FINISHS RELICE WEER - FIREPLACE
0552300 FINISHS REPLACE CLAY BRICK VENEER - FIREPLACE
0553100 CONCRETE BRICK VENEER - FIREPLACE
0553105 REFINISH REPAIRED BRICK VENEER - FIREPLACE
0553105 REFINISH REPLACE CONCRETE BRICK VENEER - FIREPLACE
0553207 REFINISH REPLACE - FIREPLACE
0553307 REFINISH REPLACE - FIREPLACE
0553307 REFINISH PLASTER SURFACE - FIREPLACE
0553307 REFINISH PLASTER SURFACE - FIREPLACE
0553307 REFINISH REPLACE - FIREPLACE
0553407 REFINISH REPL

OSTITUTO WOOD INTERIOR RAILINGS

057110 MODO INTERIOR RAILING - INTERIOR STAIR
057110 REPAIR WOOD RAILING - INTERIOR STAIR
057110 REFINISH REPAIRED WOOD RAILING INTERIOR STAIR
057110 REPLACE WOOD RAILING - INTERIOR STAIR
057120 REPAIR WETAL RAILING - INTERIOR STAIR
057120 REPAIR METAL RAILING - INTERIOR STAIR
057120 REPAIR METAL RAILING - INTERIOR STAIR
057120 REPAIR METAL RAILING - INTERIOR STAIR
057120 REPLACE WOUGHT IRON INTERIOR STAIR
057130 REFINISH WROUGHT IRON INT. STAIR RAILING
057130 REFINISH WROUGHT IRON INT. STAIR RAILING
057130 REFINISH WROUGHT IRON INT. STAIR RAILING
057130 REFINISH STEPS
057200 INTERIOR STEPS
057210 CONCRETE INTERIOR STAIR
057210 CONCRETE INTERIOR STAIR
057201 REPAIR WOOD STEPS - INTERIOR STAIR
057202 REPAIR WOOD STEPS - INTERIOR STAIR
057203 REFINISH WOOD STEPS - INTERIOR STAIR
057204 REFINISH WOOD STEPS - INTERIOR STAIR
057206 REFIN.REPAIRED WOOD STEPS - INTERIOR STAIR
057206 REFIN.REPLACE WOOD STEPS - INTERIOR STAIR
057206 REFIN.REPLACE WOOD STEPS - INTERIOR STAIR
057206 REFIN.REPLACE WOOD STEPS - INTERIOR STAIR
057230 REPLACE WOOD STEPS - INTERIOR STAIR
057230 REPLACE WELALED WETAL STEPS - INTERIOR STAIR
057230 REPLACE WOOD STEPS - INTERIOR STAIR
057230 REPLACE WOOD STEPS - INTERIOR STAIR
057230 REPLACE WOOD STEP

0554100 FIREBRICK, FIREPLACE
0554102 REPAIR FIREBRICK - FIREPLACE
0554105 REPLACE FIREBRICK - FIREPLACE
555000 FLUES, ARCHITECTURAL
0555100 BAKED CLAY FLUE, ARCHITECTURAL
0555200 METAL PIPE FLUE, ARCHITECTURAL
0555202 REAPIR METAL PIPE FLUE, ARCHITECT.FIRPLC
0555202 REAPIR METAL PIPE FLUE, ARCHITECT.FIRPLC
0555205 REPLACE METAL PIPE FLUE, ARCHITECT.FIRPLC

0561102 REPAIR WOOD TRIM - INTERIOR ORNAMENT 0561103 REFIN.REPRED.WOOD TRIM-INTERIOR ORNAMENT 0561103 REFINISH WOOD TRIM - INTERIOR ORNAMENT 0561105 REPLACE WOOD TRIM - INTERIOR ORNAMENT 0561200 REFIN.REPLCD.WOOD TRIM-INTERIOR ORNAMENT 0561200 METAL TRIMMING

0560000 INTERIOR ORNAMENTS 0561000 INTERIOR TRIM 0561100 WOOD TRIMMING

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0611402 REPAIR STUCCO INTERIOR WALL FINISH
0611403 REFINISH STUCCO INTERIOR WALL FINISH
0611406 REFINISH STUCCO INTERIOR WALL FINISH
0611406 REFINISH STUCCO INTERIOR WALL FINISH
0611406 REFINISH STUCCO INTERIOR WALL FINISH
061100 MASOMY & TILE PRODUCTS
0612100 REPAIR CLAY BLOCK WALL FINISH
0612100 REPAIR CLAY BLOCK WALL FINISH
0612100 REPAIR CLAY BLOCK (PAINTED) WALL FINISH
0612200 REPAIR CLAY BLOCK (PAINTED) WALL FINISH
0612200 REFINISH CONCRETE BLOCK WALL FINISH
0612200 REPAIR CONCRETE BLOCK WALL FINISH
0612400 REPAIR CONCRETE BLOCK (PAINTED) WALL FINISH
0612400 REFINISH CONCRETE BLOCK (PAINTED) WALL FINISH
0612400 REPAIR CONCRETE BROCK WALL FINISH
0612400 REPAIR CONCRETE BROCK WALL FINISH
0612500 REPAIR CONCRETE BROCK WALL FINISH
0612500 REPAIR CONCRETE BROCK WALL FINISH
0612500 REPAIR FREBRICK WALL FINISH
0612500 REPAIR FIREBROCK WALL FINISH
0612500 RE

0612A00 GLAZED CONCR.MASON.UNIT INTER.WALL FIN. 0612A02 REPAIR GLAZED CMU. INTERIOR WALL FINISH 0612A0\* REPLACE GLAZED CMU. INTERIOR WALL FINISH

UO14000 PIPER, PLASTIC & FABRIC
0614100 FORMICA INTERIOR WALL FIN.
0614105 REPAIR FORMICA WALL FINISH
0614200 NYLON INTERIOR WALL FINISH
0614202 REPAIR NYION WALL FINISH
0614205 REPAIR NYION WALL FINISH

0614205 REPLACE NYLON WALL FI 0614300 POLYESTER INTERIOR WALL 0614302 REPAIR POLYESTER WALL

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0572503 REFIN.REPRED.MASONRY STEP PNTD.INT.STAIR 0572504 REFINISH MASONRY STEPS PAINTED INT.STAIR 0572504 REFINISH MASONRY STEPS PAINTED INT.STAIR 0572506 REFIN.REPLED.MASONRY STEP PNTD INT.STAIR 0572506 CARPETED INTERIOR STEPS INTERIOR STAIR 0572607 REPAIR CARPETED STEPS INTERIOR STAIR 057260 REPAIR CARPETED STEPS INTERIOR STAIR 0572702 MINOR REPAIRS TO RUBBER INT.STAIR STEPS 0572705 REPLACE RUBBER INTERIOR STEPS 0572800 TERRAZO INTERIOR STEPS 0572800 TERRAZO INTERIOR STEPS 0572800 REPAIRS TO TERRAZO INT.STAIR STEPS 0572805 RIGHTS TO TERRAZO INT.STAIR STEPS 0572805 RIGHTS TO TERRAZO INT.STAIR STEPS

0580000 INTERIOR HARDWARE
0581000 HINGES
0581100 BRASS INTERIOR HINGE - INTERIOR HARDWARE
0581100 BRASS INTERIOR LOCKSET
0582100 LOCKSET
0582100 BRASS INTERIOR LOCKSET
0583100 DOOR CLOSER
0583100 BRASS INTERIOR DEADBOLT
0584100 BRASS INTERIOR DEADBOLT
0585100 BRASS INTERIOR DEATBOLT DEADBOLT
0585100 BRASS INTERIOR DEADBOLT
0585100 BRASS INTERIOR DEATBOLT DEADBOLT
0585100 BRASS INTERIOR DEADBOLT
0585100 BRASS INTERIOR DEATBOLT DEADBOLT
0585100 BRASS INTERIOR DEADBOLT
0585100 BRASS

0600000 INTERIOR FINISHES

DOI 1000 GYPSUM & PLASTER PRODUCTS

0611102 REPAIR UALL FINISH

0611102 REFAIR WALL FINISH

0611104 REFINISH REPAIRED PLASTER WALL FINISH

0611105 REFINISH PLASTER WALL FINISH

0611106 REFINISH REPAIRED PLASTER WALL FINISH

0611106 REFINISH REPLACED PLASTER WALL FINISH

0611202 REFINISH REPLACED PLASTER WALL FINISH

0611203 REFINISH REPLACED WALL FINISH

0611204 REFINISH SHEETROCK (STIPPLED) WALL FINISH

0611205 REFINISH SHEETROCK (STIPPLED) WALL FINISH

0611306 REFINISH SHEETROCK (STIPPLED) WALL FINISH

0611302 REPAIR SHEETROCK (STIPPLED) WALL FINISH

0611303 REFINISH SHEETROCK (UNSTIPLED) WALL

0611304 REFINISH SHEETROCK (UNSTIPLED) WALL

0611305 REPAIR SHEETROCK (UNSTIPLED) WALL

0611306 REFINISH SHEETROCK (UNSTIPLED) WALL

0611307 REPLASTER SHEETROCK (UNSTIPLED) WALL

0611306 REFINISH SHEETROCK (UNSTIPLED) WALL

0611307 REPLASTER SHEETROCK (UNSTIPL

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0614305 REPLACE POLYESTER WALL FINISH
0614405 KIRAIR VINYL WALL FINISH
0614405 REPLACE VINYL WALL FINISH
0614502 REPLACE WALLPAPER WALL FINISH
0614502 REPLACE WALLPAPER WALL FINISH
0614502 REPLACE WALLPAPER WALL FINISH
0614502 REPLACE FABRIC INTERIOR WALL FINISH
0614305 REPLACE CARPETED INTERIOR WALL FINISH
0614305 REPLACE CARPETED INTERIOR WALL FINISH
0614307 REPLACE CARPETED INTERIOR WALL FINISH
061500 WOOD INTERIOR WALL FINISH
0615100 REPLACE CARPETED INTERIOR WALL FINISH
0615100 REFLACE CARPETED INTERIOR WALL FINISH
0615200 PLYWOOD CHAINTED/WASTALED/WALL FINISH
0615300 REPLACE CHYWOOD(UNFINISHED) WALL FINISH
0615300 REPLACE CHYWOOD(UNFINISHED) WALL FINISH
0615300 REPLACE THWER (FINISHED) WALL FINISH
0615500 REFLACE PAREL (SOLID) WALL FINISH
0615500 REFLACE PAREL (RAMINATED) WALL FINISH
0615500 REFLACE BOARD (FINISHED) WALL FINISH
061500 WALL FINISH ROAD (PRINTINSHED) WALL FINISH
061500 WALL FINISH ROAD (PRINTINSHED) WALL FINISH
061500 REFLACE BOARD (FINISHED) WAL
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0617100 GLASS BLOCK INTERIOR WALL
0617101 REPAIR GLASS BLOCK WALL FINISH
0617105 REPAIR GLASS BLOCK WALL FINISH
0617200 PLATE GLASS BLOCK WALL FINISH
0617200 PLATE GLASS INTERIOR WALL
0617205 REPAIR PLATE GLASS WALL FINISH
0617205 REPAIR PLATE GLASS WALL FINISH
0619000 SPECIAL SURFACES
0619100 SPECIAL SURFACES
0619102 REPAIR STONE WALL FINISH
0619105 REPAIR STONE WALL FINISH
0619200 ACOUSTIGAL INTERIOR WALL FILE WALL FINISH
0619200 REPAIR ACOUSTICAL TILE WALL FINISH
0619200 REPAIR ACOUSTICAL TILE WALL FINISH
0619200 REPAIR ACOUSTICAL TILE WALL FINISH
0619200 REPAIR CONCENTION WALL FILE WALL FINISH
0619200 REPAIR CONCENTION WALL FILE WALL FINISH
0619200 REPAIR CONCENTION WALL FINISH
0619200 REPAIR SABESTOS-ACOUSTICAL FIRE RID. TILE
0619200 REPAIR SABESTOS-ACOUSTICAL FIRE FINISH
0619200 REPAIR ASBESTOS-ACOUSTICAL FIRE FINISH
0619200 REPAIR REPRO ASBESTOS-ACOUSTICAL FIRE FINISH
0619200 REPAIR REPRO ASBESTOS-ACOUSTICAL FIRE FINISH
0619200 FIRERGLASS PANELS INTER WALL FINISH
0619503 REFINISH FIRERGLASS PANELS INTER WALL FINISH
0619504 REFINISH FIRERGLASS PANELS INTER WALL FINISH
0619504 REFINISH FIRERGLASS PANELS INTER WALL FINISH 0615903 REFINISH REPAIRED WAINSCOT WALL FINISH
0615904 REFINISH WAINSCOT WALL FINISH
0615905 REPLACE WAINSCOT WALL FINISH
0616000 METAL INTERIOR WALL
0616100 ALUMINUM INTERIOR WALL
0616100 ALUMINUM INTERIOR WALL
0616200 STEIL INTERIOR FINISH (UNPAINTED)
0616200 STEEL INTERIOR FINISH (UNPAINTED)
0616200 STEEL INTERIOR FINISH (UNPAINTED)
0616200 STEEL INTERIOR FINISH (UNPAINTED)
0616200 REPAIR STEEL INT.FINISH(UNPNTD)WALL FIN.
0616200 REFAIR STEEL INT.FINISH(UNPNTD)WALL FIN.
0616303 REFINISH STEEL INT.FINISH(UNPNTD)WALL FIN.
0616304 REFINISH STEEL INT.FINISH WALL FINISH
0616400 WIRE MESH WALL
0616400 WIRE MESH WALL FINISH
0616406 REFINISH REPAIRED WIRE MESH WALL FINISH
0616406 REFINISH REPAIRED WIRE MESH WALL FINISH
0616406 REFINISH REPAIRED WIRE MESH WALL
0616500 LEAD-LINED INTERIOR WALL
0616500 GLASS BLOCK INTERIOR WALL
0617000 GLASS BLOCK INTERIOR WALL

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0619505 0619506 061A000 CON

0619505 REPLACE FIBERGLASS PANEL INT.WALL FINISH
0619506 REFIN.REPLCD.FIBERGLS PAL INT.WALL FINS.
0618000 COMCRETE
0618100 COMCRETE, UNFINISHED INTERIOR WALL
0618105 REPLACE UNFINISHED CONCRETE WALL FINISH
0618105 REPLACE UNFINISHED CONCRETE WALL FINISH
0618200 COMCRETE, FINISHED CONCRETE WALL FINISH
0618204 REFINISH FINISHED CONCRETE WALL FINISH
0618204 REFINISH FINISHED CONCRETE WALL FINISH
0618205 REPLACE FINISHED CONCRETE WALL FINISH

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0624101 MINOR REPAIRS TO LINGLEUM FLOOR
0624101 MINOR REPAIRS TO LINGLEUM FLOOR
0624102 REPLACE LINGLEUM FLOOR
0624102 REPLACE LINGLEUM FLOOR
0624202 REPLACE LINGLEUM FLOOR
0624201 MINOR REPAIRS TO VINYL ASBESTOS TILE FLOORING
0624201 MINOR REPAIRS TO VINYL ASBESTOS TILE FLOORING
0624301 MINOR REPAIRS TO RUBBER TILE FLOORING
0624400 VINYL SHEET FLOORING
0624400 VINYL SHEET FLOORING
0624401 WINOR REPAIRS TO ROUGHET FLOORING
0624401 WINOR REPAIRS TO CONCRETE FLOOR
062401 MINOR REPAIRS TO CONCRETE FLOOR
0628101 MINOR REPAIRS TO CONCRETE FLOOR
0628101 MINOR REPAIRS TO FINISHED CONCRETE FLOOR
0628201 MINOR REPAIRS TO FINISHED CONCRETE FLOOR
0628201 MINOR REPAIRS TO FINISHED CONCRETE FLOOR
0628203 REPLACE FINISHED CONCRETE FLOOR
0628200 TERRAZZO FLOORING
0622002 REPLACE FIRRAZZO FLOOR
0622002 REPLACE FIRRAZZO FLOOR
0622002 REPLACE FRRAZZO FLOOR
0622000 BITUMINOUS FLOORING
062010 MINOR REPAIRS TO BITUMINOUS FLOORING
062010 MINOR REPAIR TO BITUMINOUS FLOORING
062A000 SYNTHETIC FLOORING FINISHES
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0630000 CEILINGS & CEILING FINISHES
0631000 GYPSUM AND PLASTER PRODUCTS
0631101 PLASTER CEILING
0631102 REPAIR PLASTER CEILING FINISH
0631103 REFINISH REPAIRED PLASTER CEILING FINISH
0631105 REFINISH REPAIRED PLASTER CEILING FINISH
0631200 SHEFINISH REPEACED PLASTER CEILING FINISH
0631200 SHEFINISH SHEETROCK(STIPPLED) CEILING
0631201 REPAIRED SHEFIROCK(STIPLED) CEILING
0631202 REPAIRED SHEFIROCK(STIPLED) CEILING
0631203 REFIN.REPAIRED SHEFIROCK(STIPLED) CEILING
0631204 REFINISH SHEETROCK(STIPPLED) CEILING FINISH
0631205 REPLACE SHEFIROCK(STIPPLED) CEILING FINISH
0631300 SHEFIROCK (STIPPLED) CEILING FINISH
0631300 SHEFIROCK (UNSTIPPLED) CEILING
0631301 REPAIR SHEETROCK(UNSTIPPLED) CEILING
0631304 REFIN.REPRO.SHEETROCK(UNSTIPPLED) CEILING
0631305 REPLACE SHEETROCK(UNSTIPPLED) CEILING
0631305 REPLACE SHEERROCK(UNSTIPPLED) CEILING
0631305 REPLACE SHEERROCK(UNSTIPPLED) CEILING
0631305 REPLACE SHEERROCK(UNSTIPPLED) CEILING
0631305 REPLACE SHEERROCK (UNSTIPPLED) CEILING
0631305 REPLACE SHEERROCK (UNSTIPPLED) CEILING
0631402 REPAIR STUCCO INTERIOR CEILING FINISH
0631405 REFINISH STUCCO INTERIOR CEILING FINISH
0631406 REFINISH STUCCO INTERIOR CEILING FINISH

062000 FLOORING & FLOOR FINISHES
0621000 GYPSUM AND PLASTER PRODUCTS
0622100 MASONRY & TILE PRODUCTS
0622101 MINOR REPAIRS TO CERMIC TILE FLOOR
0622101 MINOR REPAIRS TO CERMIC TILE FLOOR
0622201 MINOR REPAIRS TO GUARRY TILE FLOOR
0622201 MINOR REPAIRS TO BRICK FLOOR
0622301 MINOR REPAIRS TO BRICK FLOOR
0622300 BRICK FLOORING
0622301 MINOR REPAIRS TO BRICK FLOOR
0622300 LIQUID FINISHES
0622402 MARBIE FLOOR MRBLE FLOOR
0622402 MARBIE FLOOR MRBLE FLOOR
0622401 MINOR REPAIRS TO MARBLE FLOOR
0622500 LIQUID FINISHES
0622401 MINOR REPAIRS TO WOOD PRRQUERY FLOOR
06225101 WOOD PLOORING FINISHES
062300 LIQUID FINISHES
062300 MARBIE FLOOR
0625102 MARBIE FLOOR
0625103 MINOR REPAIRS TO PLOOR
0625103 MINOR REPAIRS TO PLOOR
0625103 MINOR REPAIRS TO PLYOOD
0625201 MINOR REPAIRS TO PLYOOR
0625301 MINOR REPAIRS TO BET FLOOR
0625301 MINOR REPAIRS TO CARPET
062501 MINOR REPAIRS

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CACES

CACES

DESCRIPTION

0637312 REPLACE SINGLE GLASS SKYLIGHT UNIT
063732 SKYLIGHT INTEGRATED WASTRUCTURE
0637320 SKYLIGHT INTEGRATED WASTRUCTURE
0637320 SKYLIGHT INTEGRATED WASTRUCTURE
0637320 SKPLACE SKYLIGHT INTEGRATED WASTRUCTURE
0637300 SPECIAL SURFACES
0639000 SPECIAL SURFACES
0639102 REPLACE SPEC. PURP. ACOUSTIC. TILE CLG. FIN.
0639103 REPLACE SPEC. PURP. ACOUSTIC. TILE CLG. FIN.
0639203 REPLACE SPEC. PURP. ACOUSTIC. TILE CLG. FIN.
0639203 REPLACE SPEC. PURP. ACOUSTIC. TILE CLG. FIN.
0639204 REPLACE ACOUSTIC (FIRE RATED) TILE FIN.
0639304 REFINISH ASBESTOS-ACOUST. RID. TILE FIN.
0639305 REPLACE ACOUSTIC (FIRE RATED) TILE FIN.
0639305 REPLACE ACOUSTICAL FIRE RATED TILE FIN.
0639306 REFINISH ASBESTOS-ACOUST. RID. TILE FIN.
0639306 REFINISH ASBESTOS-ACOUST. RID. TILE FIN.
0639304 REFINISH ASBESTOS-ACOUST. RID. TILE FIN.
0639405 REPLACE FIBERGLASS PANEL CEILING FINISH
0639405 REFINISH FIBERGLASS PANEL CEILING FINISH
0639405 RE

0632105 REPAIR ACQUSIC TILE CELLING FINISH
0632200 REPAIR ACQUSIC TILE CELLING FINISH
0632200 REPAIR ACQUSIC TILE CELLING FINISH
0632200 REPAIR ACQUSIC TILE (OROPPE) CELLING FINISH
0632200 REPAIR CRAMIC TILE (OROPPE) CELLING FINISH
0632300 CERAMIC PAN CELLING
0632300 CERAMIC TILE CELLING
0632300 CERAMIC TILE CELLING
0632400 REPAIR CRAMIC (TILE) CELLING FINISH
0632400 CARAMIC TILE CELLING
0632400 PAPER, PLASTIC CELLING FINISH
0632400 PAPER, PAPER CELLING FINISH
0632400 PAPER, PLASTIC CELLING FINISH
0632400 PAPER, PAPER CELLING FINISH
0633100 WOOD FINISHED CELLING FINISH
0635100 WOOD FINISHED CELLING FINISH
0635100 WETAL CELLING FINISH
0635200 REPAIR PAPER CELLING
0635100 WETAL CELLING FINISH
063500 WETAL CELLING FINISH
06

0800000 PLUMBING

0810000 SANITARY SYSTEM
0811000 FIXTURES
0811100 TANKLESS WATER CLOSET
0811101 REPLACE FLUSH VALVE-TANKLESS WATER CLOST
0811102 UNPLUG CLOGGED LINE-TANKLESS WATER CLOST
0811103 REPLACE TWAKLESS WATER CLOST
0811201 UNPLUG CLOGGED LINE-TANK WITR CLOST
0811202 REPLACE LOSET
0811202 REPLACE LOSET
0811202 REPLACE LOSET
0811203 REPLACE FLUSH TANK WITR CLOST
0811205 REPLACE FLUSH SAN FLUSH TANK WITR CLOS
0811204 INSTLL GASKET IN SPUD CONNECT-FLH TK WITR
0811301 REPLACE FLESH VALVE - URINAL
0811301 REPLACE FEESH VALVE - URINAL
0811302 UNPLUG LINE - URINAL
0811303 REPLACE URINAL
0811303 REPLACE WIRNAL
0811400 LAVATORY IRON ENAMEL
0811402 REPLACE WASHER IN SPUD CONNECT-LAV IRON
0811401 REPLAGE WASHER IN FAUCET-IRON, ENAMEL L

0637300 GLASS SKYLIGHTS 0637310 SINGLE GLASS SKYLIGHT UNITS

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Army Wide Task/Basic Task Structure List

DESCRIPTION

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0811CO1 INSPECT/CLEAN SHOWER HEAD-ALUMINUM SHOWER
0811CO2 REPLACE FAUCETS - ALUMINUM SHOWER
0811CO3 REPLACE FAUCETS - ALUMINUM SHOWER
0811CO4 RESEAL - ALUMINUM SHOWER
0811CO5 REPLACE FAUCETS WASHER - IRON ENAMEL SINK
0811DO0 SINK, IRON ENAMEL SINK
0811DO2 CLEAN FRAP-IRON ENAMEL SINK
0811DO2 REPLACE FAUCETS WASHER - IRON ENAMEL SINK
0811DO3 REPLACE FAUCETS - IRON ENAMEL SINK
0811DO3 REPLACE FAUCETS - IRON ENAMEL SINK
0811DO4 REPLACE FAUCETS - IRON ENAMEL SINK
0811EO2 REPLACE FAUCETS - IRON ENAMEL SINK
0811EO3 REPLACE FAUCETS - IRON ENAMEL SINK
0811EO3 SINK, IRON ENAMELED STEEL SINK
0811EO3 SINK, IRON ENAMELED STEEL SINK
0811EO3 SINK, PLANELED STEEL SINK
0811EO3 SINK, PLANELES ST 0811K01 PER 08114.04 REPLACE FAUCETS - IROW, ENAMEL LAVATORY OR114.05 CLEAN CUT STRAINER AND P TRAP-IROW, ENAMEL OR115.00 LAVATORY VITRECUS CHIAN (18) EPLACE MASHER IN SPUD CONNECTION VIT CH 0811502 REPLACE MASHER IN SPUD CONNECTION VIT CH 0811502 CLEAN CUT STRAINER IN SPUD CONNECTION VIT CH 0811502 CLEAN CUT STRAINER AND P TRAP-VITR CHINA OR11504 CLEAN CUT STRAINER AND P TRAP-VITR CHINA OR11504 CLEAN CUT STRAINER AND P TRAP-VITR CHINA OR11505 CLEAN CUT STRAINER AND P TRAP-EN ST LA OR11505 REPLACE SUPPORT ROOS-ENAMELED STEEL OR11505 REPLACE CANCET STRAINER AND P TRAP-EN ST LA OR11505 REPLACE CANCET STRAINER AND P TRAP-EN ST LA OR11706 REPLACE CANCET WASHER IN SMO P TRAP-EN ST LA OR11707 REPLACE CANCET WASHER HEAD-BATH TUB, CAST IRON OR11707 REPLACE CANCET WASHER HEAD-BATH TUB, CAST IRON OR11706 REPLACE CANCET WASHER HEAD-ENAMEL ST LOW OR11706 REPLACE CANCET WASHER ENTON OR11706 REPLACE FAUCETS-BATH TUB, CAST IRON OR11706 MEDICAL ST REPLACE FAUCETS-BATH TUB, CAST IRON OR11706 MEDICAL ST REPLACE FAUCETS-BATH TUB, CAST IRON OR11706 MEDICAL FAUCETS-ENAMEL ST BATH TUB OR11803 REPLACE FAUCETS-ENAMEL ST BATH TUB OR11805 REPLACE FAUCETS-ENAMEL ST BATH TUB OR11806 MESTAL TRRAZO SHOWER TERRAZO SHOWER TERRAZO SHOWER TERRAZO SHOWER TORNAMELED STEEL GORIGOS REPLACE FAUCETS - ENAMELED STEEL OR11800 SHOWER TERRAZO SHOWER TERRAZO SHOWER TORNAMELED STEEL SHOWER OR11800 SHOWER ENAMELED STEEL SHO

WASHER IN SPUD CONNECT-LAVIRY, PLAST

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Army Wide Task/Basic Task Structure List

CACES

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DESCRIPTION
CACES
                          0811KOZ REPL WASHR IN FAUCET, LAVATORY, PLASTIC 0811KOZ REPLACE SUPPORT RODS, LAVATORY, PLASTIC 0811KOZ REPLACE SUPPORT RODS, LAVATORY, PLASTIC 0811KOS CLEAN GUT STRAINR & P. TRAP, LAV, PLASTIC 0811KOS CLEAN GUT STRAINR & P. TRAP, LAV, PLASTIC 0811LOS CHERGENCY SHOWER STATION 0811LOS CHERGENCY SHOWER STATION 0811LOS CHERGENCY SHOWER STATION 0811LOS ERELACE SHOWER-ENERGENERG EYE WASH 0811HOS CHERGENCY ETE WASH 0811HOS REPLACE SHOWER, CMU 0811HOS REPLACE SHOWER CHAD SHOWER, CMU 0811HOS REPLACE SHOWER, CMU 0811HOS REPLACE SHOWER CHAD SHOWER, CMU 0811HOS REPLACE SHOWER, CMU 0811HOS REPLACE SHOWER CHAD SHOWER GLAZED CMU 0811HOS REPLACE SHOWER CHAD SHOWER CHAD SHOWER GLAZED CMU 0811HOS SHOWER, CERNIC TILE 0811HOS SHOWER, CERNIC TILE 0811HOS SHOWER CENTER SHOWER CHAD CHU 0811HOS UNSTOP - SHOWER CERAMIC TILE 0811HOS CHOOL OF PARK IN WITH BUCKET OR 1810 SHOWER CENTER SHOWER CHAD CHU 081200 CLUB MAIN DRAIN - DIPE & FITTING O81200 CLUB MAIR DRAIN - DRAIN - DRAIN 
DESCRIPTION
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CACES

**DESCRIPTION** 

Army Wide Task/Basic Task Structure List

0814HOD HOT WATER HEATER ELEC. 120 GAL.
0814HO] DRAIN AND FLUSH HOT WATER HTR.ELEC 120 G
0814HOS REPLACE HOT WATER HERE ELEC 120 G
0814LOS REPLACE HOT WATER HEATER ELEC 120 G
0814LOJ DRAIN AND FLUSH HOT WATER HTR.ELEC 300 G
0814LOJ CHECK OPERATION-HOT WATER HTR.ELEC 300 G
0814JOS CHECK OPERATION-HOT WATER HTR.ELEC 300 G
0814JOS CHECK OPERATION-HOT WATER HTR.ELEC 1000 G
0814JOS CHECK OPERATION-HOT WATER HTR.ELEC 1000 G
0814JOS CHECK OPERATION-HOT WATER HTR.ELEC 1000 G
0814KOJ CHECK OPERATION-HOT WATER HTR.ELEC 2000 GAL
0814KOJ MATER HEATER ELEC, 2000 GAL
0814KOJ REPLACE HOT WATER HEATER ELEC 7500 GAL
0814KOJ HOT WATER HEATER ELEC, 52 GAL
0814LOJ CHECK OPERATION-HOT WATER HEAT ELECT, 52 GAL
0814KOJ HOT WATER STORAGE TANK, DHW
0814MOJ CLEANA STORAGE TANK, DHW
0814MOJ CLEANA STORAGE TANK, DHW
0814MOJ REGLUC JOINT-PIPE/FITTINGS, PVC-HOT
0814MOJ REGLUC JOINT-PIPE/FITTINGS, PVC-HOT
0814MOJ REGLUC JOINT-PIPE/FITTINGS, PVC-HOT
0814MOJ CHECK PERPERENTION-PIPE/FITTINGS, PVC-HOT
0814MOJ CHECK PERPERENTION-PIPE/FITTINGS, PVC-HOT
0814MOJ CHECK PUMP/MOTOR OPERRING, SEAL > 1HP
0814MOJ CHECK PUMP/MOTOR OPERRING, SEAL > 1HP
0814MOJ REGLUCA PUMP/MOTOR PERFINGS SEAL > 1HP
0814MOJ REGLUCA PUMP/MOTOR PSERMIG, SEAL > 1HP
0814MOJ REGLUCA PUMP/MOTOR PSERMIG > 1HP
0814MOJ REGLUCA PUMP/MOTOR PSERMIGH > 1HP
0814MOJ REGLUCA PUMP - 1HP
0814MOJ REGLUCA P

0820000 RAIN WATER
0821000 FIXTURES, RAIN WATER
0821000 DRAIN, ROOF SCUPPER, AREA
0821101 GENERAL MAINTAREP-DRAIN, ROOF SCUPPER, ARE
0821103 GENERAL MAINTAREP-DRAIN, ROOF SCUPPER, ARE
0822000 DRAINAGE, RAIN WATER
0822101 GENERAL MAINTAR REPAIR-GUTTERS OR P!PE
0822101 GENERAL MAINTAR REPAIR-GUTTERS OR P!PE
0822100 DRAINAGE, WATER SEEPAGE
0823101 ONSTHAUL SUMP PUMP, REPL SEAL/BEARING
0823101 ONSTHAUL SUMP PUMP, REPL SEAL/BEARING
0823102 INSP./CHK PUMP/MOTOR OPER.,CHK ALIGN.
0823103 REPL PUMP/MOTOR ASSEM, PARTIAL-SUMP PUMP

0830000 SPECIAL PLUMBING SYSTEM
0831000 COMPRESSED AIR
0831100 SIMPLE COMPRESSED AIR
0831110 HECK AND ADJUST COMPRESSOR - 1H.P
0831112 REPAIR COMPRESSOR - 1 H.P.
0831121 OVECIMP PUMP
0831121 CHECK OPERATION, VACUUM PUMP

1-25

0814200 PIPE & FITTINGS, COPPER 0814201 RESOLDER JOIN-PERÉFITINGS, COPPER 0814202 REPLACE PIPE AND FITTINGS - COPPER 0814202 REPLACE PIPE AND FITTINGS - COPPER 0814202 INSTALL 10'SECTION-PIPEFF, COPPER 0814202 INSTALL 10'SECTION-PIPEFF, COPPER 0814202 INSTALL NEW VALVE, NOW DRAIN 3/8"-1 1/2" 0814200 VALVE, NOW DRAIN 3/8"-1 1/2" 0814200 VALVE, NOW DRAIN 2"-3" 0814401 REPÁCK GLAND - VALVE, NOW DRAIN 2"-3" 0814500 VALVE, NOW DRAIN 4"-6" 0814500 VALVE, NOW DRAIN 4"-6" 0814500 VALVE, DRAIN 4"-6" 0814500 CIRCULATOR PUMP, 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP, 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP, 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP, 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 CIRCULATOR PUMP 17.2 HP PUMP/MOTOR ASSEMBLY - HOT 0814500 HOT WATER HTR, GAS/OLL 75 GAL 0814500 HOT WATER HTR, GAS/OLL 75 GAL 0814500 HOT WATER HTR, GAS/OLL 75 GAL 0814500 HOT WATER HTR, GAS/OLL

CACES

0831123 REPLACE VACUUM PUMP
0831123 GAS COMPRESSOR > 1/2 HP
0831131 CHECK AND ADJUST GAS COMPRESSOR > 1/2 HP
0831132 REPAIR GAS COMPRESSOR > 1/2 HP
0831140 GAS COMPRESSOR > 1/2 HP
0831141 CHECK AND ADJUST GAS COMPRESSOR > 1/2 HP
0831142 REPAIR GAS COMPRESSOR > 15 HP
0831142 REPAIR GAS COMPRESSOR > 15 HP
0831150 COMPRESSOR > 15 HP
0831150 COMPRESSED AIR DRYER
0831151 RECHARGE SYSTEM-COMPRESSED AIR DRYER
0831151 RECHARGE SYSTEM-COMPRESSED AIR DRYER
0831151 RECHARGE COMPRESSED AIR DRYER
0831151 REPLACE COMPRESSED AIR DRYER
0831151 REPLACE COMPRESSED AIR DRYER
0831151 REPLACE RUBBER HOSE, COMPRESSED AIR
0831310 NISTAL GASE
0831310 REPLACE METAL PIPE FOR COMPRESSED
0831311 REPLACE METAL PIPE AND FITTINGS, 10 FT.
0831313 REPLACE METAL PIPE AND FITTINGS
0831311 GENERAL MAINT-METAL PIPE AND FITTINGS
0831311 GENERAL MAINT-METAL PIPE AND FITTINGS
0832100 INDUSTRIAL GASES
0832310 1 H.P.

0832111 CHECK AND ADJUST GAS COMPRESSER 1H.P.
0832112 REPAIR GAS COMPRESSER - 1 H.P.
0832103 REPLACE GAS COMPRESSER - 1 H.P.
0832200 HOSE, INDUSTRIAL GAS
0832210 RUBBER

UBSZE11 KEDLACE RUBBER HOSE - INDUSTRIAL GAS
0832300 PIPE AND FITTINGS FOR INDUST. GAS
0832310 METAL PIPE
0832310 METAL PIPE BATAL PIPE - INDUST. GAS
0832312 REPL METAL PIPE&FITTINGS, 10FT-INDUST GAS
0832310 SPECIAL GAS SYSTEMS
08333100 PIPING SPECIAL AMESTHESIA GAS SYS.
0833310 PIPE AND FITTING, AMESTHESIA
083311 RESOLDER JOINT-PIPE/FITTINGS, ANESTHESIA
0833113 REPLACE PIPE AND FITTINGS, ANESTHESIA
0833110 PIPE AND FITTING, ONYGEN
0833210 PIPE AND FITTING, ONYGEN
0833210 PIPE AND FITTING, ONYGEN
0833210 PIPE AND FITTING, ONYGEN
0833211 RESOLDER JOINT-PIPE/FITTINGS, ONYGEN
0833211 RESOLDER JOINT-PIPE/FITTINGS, ONYGEN
0833211 RESOLDER JOINT-PIPE/FITTINGS, ONYGEN
0833211 RESOLDER JOINT-PIPE/FITTINGS, ONYGEN
0833213 REPLACE PIPE AND FITTINGS, ONYGEN

0840000 SPECIAL PLUMBING FIXTURE
0841000 KITCHEN PLUMBING FIXTURE
0841100 DISHUASHER
0841101 GENERAL MAITENANCE & REPAIR-DISHUASHER
0841100 WASTE DISPOSAL, RESIDENTIAL
0841201 UNSTOP WASTE DISPOSAL, RESIDENTIAL

CACES

DESCRIPTION

0841300 WATER SOFTENER
0841301 GEN MAINT AND REPAIR, WATER SOFTENER
0841302 CHK OPERATION & ADD SALT-WATEF SOFTENER
0841302 REPLACE WATER SOFTENER
0844000 SPECIAL SYSTEMS - FIRE SUPPRESSION
084410 OPEN HEAD SPRINKLER HEAD
0844111 REPAIR OPEN HEAD-SPRINKLER HEAD
0844112 INSPECT SPRINKLER SYST-SPRINKLER
0844113 REPLACE OPEN-HEAD SPRINKLER HEAD

0900000 HEATING, VENTILATION AND AIRCONDITIONING

0910000 NATURAL GAS SYSTEMS
0911000 EQUIPMENT/METERS/REGULATORS, NAT. GAS
091100 GAS METER
091101 REPLACE GAS METER
0912000 PIPING SYSTEMS, NATURAL GAS SYS.
0912100 PIPE FITTINGS, STEEL/IRON
0912101 INST NEW GASKET-PIPE FITTINGS, STL/IRON
0912102 REPLACE 10 FOOT SECTION—PIPE F, STL/IRON
0912103 REPLACE PIPE AND FITTINGS, STEEL/IRON
0912200 PRESS. REDUCING VALVE, 5 INCH
0912201 CHECK GAS PRESSURE REDUCING VALVE, 5"
0912301 CHECK GAS PRESSURE REDUCING VALVE, 5"
0912302 REPLACE PRESSURE REDUCING VALVE, 5"
0912301 CHECK GAS PRESSURE REDUCING VALVE, 5"
0912302 REPLACE PRESSURE REDUCING VALVE, 5"
0912301 CHECK GAS PRESSURE REDUCING VALVE - 2"

0920000 FUEL DIL SYSTEMS
0921000 STORAGE SYSTEMS, FUEL DIL SYS.
0921100 OIL STORAGE TANK, 275 GAL.
0921100 OIL STORAGE TANK, 275 GALLON
0921200 STORAGE SYSTEMS, FUEL DIL FILTER
0921201 PREVENTIVE MAINTEMANCE, FUEL OIL FILTER
0921301 PREVENTIVE MAINTEMANCE, FUEL OIL FILTER
0921301 PREVENTIVE MAINTEMANCE, FUEL OIL GAUGE
0921301 PREVENTIVE MAINTEMANCE, FUEL OIL GAUGE
0921302 REPLACE GUAGE, FUEL OIL GAUGE
0921300 TRANSFER SYSTEMS, FUEL OIL SYS.
0923000 DISTRIBUTION SYSTEMS, FUEL OIL SYS.
0923101 RESOLDER JOINT PIPE/FITTINGS, COPPER
0923102 REPLACE FINSTALL 10' SECTION-PI-E/FIT COP
0923103 REPLACE PIPE AND FITTINGS, COPPER

0930000 LPG SYSTEMS
0931000 STORAGE SYSTEMS, LPG SYS.
0931100 LPG STORAGE TANK, 1000 GALLON
0931101 REPLACE LPG SYORAGE TANK, 1000 GALLON
0932000 TRANSFER SYSTEMS, LPG SYS.
0933100 DISFIRBUTION SYSTEMS, LPG SYS.
0933101 INSTALL NEW GASKET-PIPE/FIT, STEEL/IRON
0933102 REPLACE 10'SECTION-PIPE/FIT, STEEL/IRON
0933103 REPLACE 10'SECTION-PIPE/FIT, STEEL/IRON

0940000 STEAM (SUPPLIED FROM CENTRAL)
0941000 PRESSURE REDUCING REG. SYS., STEAM SYS.

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CHIST CALIDION

CORTIST REPAIR GAS BOILER - 10000 BTU

CORSTIST REPAIR GAS BOILER - 10000 BTU

CORSTIST PREV MAINT ANNUAL INSP-GAS BLR 10000 BTU

CORSTIST PREV MAINT CLEAN FIREBX-GAS BLR 10000 BTU

CORSTIST PREV MAINT CLEAN TUBES-GAS BLR 10000 BTU

CORSTIST REPLACE GAS BOILER - 10000 BTU

CORSTIST REPLACE GAS BOILER - 10000 BTU

CORSTIST REPLACE GAS BOILER - 40000 T

CORSTIST REPACE GAS BOILER - 40000 T

CORSTITUTE GAS BOILER - 40000 T

CORSTI
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0981000 EQUIPMENT, HEATING GENERATION
098110 250 BTU
098111 PREV MAINT ENER - 250 BTU
098111 PREV MAINT ANN INSP-250 BTU GAS BOILER
098111 PREV MAINT CLEAN FIREBX-GAS BLER 250 BTU
098112 PREV MAINT CLEAN FIREBX-GAS BLER 250 BTU
098112 PREV MAINT CLEAN FIREBX-GAS BLE 2000 BTU
098112 PREV MAINT CLEAN FIREBX-GAS BLR 2000 BTU
098112 PREV MAINT EXTER INSP-GAS BLR 2000 BTU
0981125 PREV MAINT CLEAN TUBES-GAS BLR 2000 BTU
0981125 PREV MAINT CLEAN TUBES-GAS BLR 2000 BTU
0981125 PREV MAINT CLEAN TUBES-GAS BLR 2000 BTU
0981126 PREV MAINT CLEAN TUBES-GAS BLR 2000 BTU
0981127 REPLACE GAS BOILER - 2000 BTU
                                                                                                                                                                                                                                                                                                                                                                                               0941101 REPAIR STEAM CONVERTOR, <200,000
0941102 INSPECT FOR LEAKS STEAM CONVERTOR
0941103 REPLACE STEAM CONVERTOR <200,000
0941103 REPLACE STEAM CONVERTOR <200,000
0941201 REPAIR FLASH TANK, 24 GALLON
0941201 REPAIR FLASH TANK, 24 GALLON
0941203 REPLACE FLASH TANK, 24 GALLON
0941300 STEAM REGULATION VALVE - 2"
0941301 REPLACE STEAM REGUL. VALVE-2"
0941301 REPLACE STEAM REGUL. VALVE-2"
0941501 REPLACE STEAM REGUL. VALVE-2"
0941501 REPLACE STEAM REGUL. VALVE-2"
0941501 REPLACE METER < 300#/HR
0941502 PREVENTIVE MAINTENANCE CLEANIN <300#/HR
0941503 PREVENTIVE MAINTENANCE CLEANIN <300#/HR
0941503 REPLACE METER < 300#/HR
0942101 REPLACE RADIATOR VALVE - 1"
0942101 REPLACE RADIATOR VALVE - 1"
0942101 REPLACE RADIATOR 10 SECT
0943201 METER REPLACE RASISTON 10 FT
0943201 FREPLACE BASEBORARD RADIATOR 10 FT
0943301 FREPLACE BASEBORARD RADIATOR 10 FT
0943301 REPLACE BASEBORARD RADIATOR 10 FT
0943301 REPLACE FIN RADIATOR, WALL 10 FT
0943301 REPLACE FIN RADIATOR, WALL 10 FT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          096000 SOLAR SYSTEMS
096100 EQUIPMENT, SOLAR SYSTEMS
0961100 SOLAR PANEL, 3' X 8'
0961101 REPLACE SOLAR PANEL, 3' X 8'
0961201 SOLAR STORAGE TANK, 1000 GALLOM
0961200 PIPING, SOLAR SYSTEMS
0962000 PIPING, SOLAR SYSTEMS
0962101 PIEGLEL JOINT-PIPE/FITTINGS PVC
0962102 INSTALL 10' SECTION-PIPE/FITTINGS PVC
0962103 REPLACE PIPE-PIPE/FITTINGS PVC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0950000 CHILLED WATER (SUPPLIED FROM CENTRAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0970000 OTHER GENERATION SYSTEMS
                                                                                                                                                                                                                                                            DESCRIPTION
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UP81200 B01LER (COAL)
0981210 4000 BTU
0981211 PREV MAINT ANNUAL - COAL BLR 40000 BTU
0981212 PREV MAINT ANNUAL - COAL BLR 40000 BTU
0981213 PREV MAINT WEEKLY TOUR-COAL BLR 40000 BTU
0981220 100000 BTU
0981220 TREPAIR COAL BOILER - 100000 BTU
0981221 PREV MAINT ANNUAL-COAL BLR 100000 BTU
0981222 PREV MAINT ANNUAL-COAL BLR 100000 BTU
0981225 PREV MAINT WEEKLY TOUR-COAL BLR10000BTU
0981225 PREV MAINT WEEKLY TOUR-COAL BLR10000BTU
0981226 PREV MAINT WEEKLY TOUR-COAL BLR10000BTU
0981326 PREV MAINT WEEKLY TOUR-COAL BLR10000BTU
0981310 PREV MAINT WEYN TOUR-COAL BLR 250 BTU
0981310 PREV MAINT EXTER INSP-OIL BLR 250 BTU
0981311 PREV MAINT EXTER INSP-OIL BLR 250 BTU
0981312 PREV MAINT EXTER INSP-OIL BLR 250 BTU
0981313 PREV MAINT EXTER INSP-OIL BLR 250 BTU
0981315 PREV MAINT ANNUAL INSP-OIL BLR 250 BTU
0981315 PREV MAINT ANNUAL INSP-OIL BLR 2000 BTU
0981325 PREV MAINT ANNUAL INSP-OIL BLR 2000 BTU
0981326 PREV MAINT EXTER INSP-OIL BLR 2000 BTU
0981326 PREV MAINT EXTER INSP-OIL BLR 2000 BTU
0981326 PREV MAINT EXTER INSP-OIL BLR 2000 BTU
0981335 PREV MAINT CLEAN BURNER-OIL BLR 2000 BTU

CYCLISSI REPAIR OIL BOILER - 10000 BTU
0981332 PREV MAINT ANNUAL INSP-OIL BLR 10000 BTU
0981334 PREV MAINT EXTER INSP-OIL BLR 10000 BTU
0981335 PREV MAINT EXTER INSP-OIL BLR 10000 BTU
0981335 PREV MAINT ELEAN BURNER-OIL BLR 10000 BTU
0981356 REPLACE OIL BOILER - 10000 BTU
0981410 DOGU BTU
0981412 PREV MAINT MAN-DUAL FIRED BLR 2000 BTU
0981412 PREV MAINT ANN-DUAL FIRED BLR 2000BTU
0981412 PREV MAINT ANN-DUAL FIRED BLR 2000BTU
0981412 PREV MAINT EXT INSP-DL FIRED BLR 2000BTU
0981412 PREV MAINT EXT INSP-DL FIRED BLR 2000BTU
0981412 PREV MAINT MAINT TR-DUAL FIRED BLR 2000BTU
0981420 BTU
0981420 BTU

INSP-DL FIRED INSP-DL FIRED

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DESCRIPTION

0984423 REPLACE CIRCULATION PUMP 5 HP
0984460 COND. RCVR., 10-15 GAL.
0984461 REPAIR CONDENSATE RECEIVER, 10
0984462 REPAIR CONDENSATE RECEIVER, MO
0984464 REPLACE CONDENSATE RECEIVER, 09846464 REPLACE CONDENSATE RECEIVER, 0985000 HVAC VALVES, HEATING GENERATION

0990000 COOLING GENERATION SYSTEMS 0991000 EQUIPMENT, COOLING GERNERATION 0991100 A/C\_DX PACKAGED

0991110 5 TONS
099111 REPAIR A/C DX PACKAGED - 5 TONS
0991112 PREV MAINT - A/C DX PACKAGED 5 TONS
099112 PREV MAINT - A/C DX PACKAGED 5 TONS
0991120 REPLACE A/C DX PACKAGED - 5 TONS
0991121 REPAIR A/C DX PACKAGED - 20 TONS
0991122 PREV MAINT - A/C DX PACKAGED 20 TONS
0991132 REPLACE A/C DX PACKAGED - 20 TONS
0991133 REPLACE A/C DX PACKAGED - 50 TONS
0991132 PREV MAINT - A/C DX PACKAGED 50 TONS
0991132 PREV MAINT - A/C DX PACKAGED 50 TONS
0991133 REPLACE A/C DX PACKAGED - 50 TONS
099120 A/C WINDOW

099121 REPAIR A/C WINDOM - 1 TON
0991212 REPLACE A/C WINDOM - 1 TON
0991212 REPLACE A/C WINDOM - 1 TON
0991213 REPLACE A/C WINDOM - 1 TON
0991220 2 TONS
0991220 REPAIR A/C WINDOM - 2 TONS
0991220 REPLACE A/C WINDOM - 2 TONS
0991222 REPLACE A/C WINDOM - 2 TONS
0991220 A/C PAD MOUNT - A/C WINDOM 2 TONS
0991310 A/C PAD MOUNT - 5 TONS
0991311 REPAIR A/C PAD MOUNT - 5 TONS
0991312 PREV MAINT - A/C PAD MOUNT - 5 TONS
0991320 A/C PAD MOUNT - 20 TONS
0991321 REPAIR A/C PAD MOUNT - 20 TONS
0991321 REPAIR A/C PAD MOUNT - 20 TONS
0991410 CONDITIONER PAD MOUNT - 20 TONS
0991410 CHILLER A/C PAD MOUNT - 20 TONS
0991410 CONDITIONER PAD MOUNT - 20 TONS
0991410 CONDITIONER PAD MOUNT - 20 TONS
0991421 REPAIR HERMETIC CHILLER - 20 TONS
0991421 REPAIR HERMETIC CHILLER - 50 TONS
0991422 REPLACE HERMETIC CHILLER - 50 TONS
0991432 REPLACE HERMETIC CHILLER - 50 TONS
0991432 REPLACE HERMETIC CHILLER - 50 TONS
0991432 REPLACE HERMETIC CHILLER - 100 TONS
0991430 CHILLER A/R COOL RECIPST

CACES

Army Wide Task/Basic Task Structure List

0981M22 REPAIR IND FURNACE GAS/OIL 2000 MBU
0981M32 RETERNAL IISPP IND FURN GAS/OIL 2000 MBU
0981M32 CAN FIRE BOX & COMP IND FURN GAS/OIL 2000 MBU
0981M32 CAN FIRE BOX & COMP IND FURN GAS/OIL 2000 MBU
0981M32 RETERNAL INSPP IND FURN GAS/OIL 2000 MBU
0981M32 RETERNAL INSPP IND FURN GAS/OIL 2000 MBU
0981M30 SURGE TANK 1000 GALLON
0982M30 FIXTURES, HEATING GENERATION
0982M10 PIPE/FIITINGS, ST SEP.
0982M10 PIPE/FIITINGS, COPPER
0982M10 PIPE/FIITINGS, PIPE/

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099191 PREV MAINT-CHILLER ONE STAGE ABSORBER 1001
099191 REPLACE CHILLER ONE STAGE ABSORBER 1001
0991921 REPLACE CHILLER ONE STAGE ABSORBER 1001
0991920 300 TONS
0991932 REPLACE CHILLER ONE STAGE ABSORBER 3001
0991932 REPLACE CHILLER ONE STAGE ABSORBER 3001
0991933 REPLACE CHILLER ONE STAGE ABSORBER 3001
0991933 REPLACE CHILLER ONE STAGE ABSORBER 9001
0991933 REPLACE CHILLER 2 STAGE ABSORBER 9001
099193 REPLACE CHILLER 2 STAGE ABSORBER 9001
0991941 PREV MAINT-CHILLER 2 STAGE ABSORBER 9001
0991842 REPLACE CHILLER 2 STAGE ABSORBER 9001
0991843 REPLACE CHILLER 2 STAGE ABSORBER 9001
0991843 REPLACE CHILLER 2 STAGE ABSORBER 9001
0991843 REPLACE CHILLER 2 STAGE ABSORBER 9001
0991840 HEAT RELECTION SYSTMS AIRCOLED CONDENSER 5 TONS
0991840 HEAT RELECTION SYSTMS AIRCOLED CONDENSER 5 TONS
0991850 REPLACE AIR COOLED CONDENSER 2 TONS
0991851 REPLACE AIR COOLED CONDENSER 2 TONS
0991852 REPLACE AIR COOLED CONDENSER 5 TONS
0991853 REPLACE AIR COOLED CONDENSER 5 TONS
0991853 REPLACE AIR COOLED CONDENSER 5 TONS
0991853 REPLACE AIR COOLED CONDENSER 7 TONS
0991854 REPLACE AIR COOLED CONDENSER 7 TONS
0991855 REPLACE AIR COOLED CONDENSER 7 TONS
0991856 REPLACE AIR COOLED CONDENSER 7 TONS
0991851 REPLACE AIR COOLED CONDENSER 7 TONS
0991853 REPLACE AIR COOLED CONDENSER 7 TONS
0991854 REPLACE AIR COOLED CONDENSER 7 TONS
0991855 REPLACE AIR COOLED CONDENSER 7 TONS
0991856 REPLACE CONDENSER 1001
0991851 REPAIR AIR TONS
0991851 REPLACE AIR COOLED CONDENSER 7 TONS
0991851 REPLACE AIR COOLED CONDENSER 7 TONS
0991851 REPLACE COUNDENSER 1001
0991854 REPLACE AIR COOLED CONDENSER 7 TONS
0991855 REPLACE AIR COOLED CONDENSER 7 TONS
0991855 REPLACE AIR COOLED CONDENSER 7 TONS
0991851 REPAIR AIR TONS
0991851 REPAIR COOLED CONDENSER 7 TONS
0991851 REPAIR AIR TONS
0991855 REPLACE AIR COOLED CONDENSER 7 TONS
099185 21 REPAIR CHILLER DOUBLE BUN HERMET 300 TNS
22 PREV MAINT-CHILLER DOUBLE BUN HERMET3001
23 REPLACE CHILLER DOUBLE BUN HERMET 300 T
31 REPAIR CHILLER DOUBLE BUN HERMET 900 TON
32 PREV MAINT-CHILLER DOUBLE BUN HERMET 900
33 REPLACE CHILLER DOUBLE BUN HERMET 900
CHILLERS OWE STAGE ABSORBER
100 TONS REFLACE CHILLER COUBLE BUN HERMET 1001( PREV MAINT-CHILLR DOUBLE BUN HERMET 1( REPLACE CHILLER DOUBLE BUN HERMET 100 300 TONS **DESCRIPTION** 0991811 0991812 0991820 0991822 0991823 0991833 0991831 0991831 0991831 0991831 0991831

REPAIR CHILLER OPEN CENT 900 TONS
PREV MAINT - CHILLER OPEN CENT 900 TONS
REPLACE CHILLER OPEN CENT 900 TONS
LLERS DOUBLE BUN HERMETIC
100 TONS

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0991442 PREVENT MAINT CHILLER-AIR COOL RECPTION 1991450 CHILLER AIR COOL REC 101 0991451 REPR HERRET CHILLER AIR COOL REC 101 0991451 REPR HERRET CHILLER AIR COOL REC 101 0991453 REPLACE CHILER-CHILLER AIR COOL REC 101 0991463 REPLACE CHILER-CHILLER AIR COOL REC 101 0991463 REPLACE CHILER-CHILLER AIR COOL REC 101 0991462 REPRINTED HER COOL REC 151 0991462 REPRINTED HER COOL REC 151 0991462 REPRINTED HER COOL REC 151 099150 CHILLER AIR COOL REC 151 099150 CHILLER AIR HERRET CHILLER AIR COOL REC 151 0991510 CHILLER WORN RECIP - 20 TONS 0991510 REPAIR HERRET CHILLER WCH RECIP 20 TONS 0991520 REPLACE HERNET CHILLER WCH RECIP 50 TONS 0991521 REPAIR HERNET CHILLER WCH RECIP 50 TONS 0991532 REPLACE HERNET CHILLER WCH RECIP 100 TONS 0991532 REPLACE HERNET CHILLER WATER COOL RECP 100 0991541 REPRINEMENT COOL RECIP 100 0991552 REPLACE HERNET CHILLER WATER COOL RECP 100 0991553 REPLACE CHILLER CHILLER WATER COOL RECP 100 0991550 CHILLER WATER COOL RECP 100 0991550 REPLACE CHILLER HERNETIC CENT 100 TONS 0991630 REPLACE CHILLER HERNETIC CENT 100 TONS 0991630 REPLACE CHILLER HERNETIC CENT 100 TONS 0991630 REPLACE CHILLER HERNETIC CENT 300 TONS 0991630 REPLACE CHILLER HERNETIC CENT 300 TONS 0991630 REPLACE CHILLER HERNETIC CENT 300 TONS 0991717 PREV MAINT - CHILLER HERNETIC CENT 300 TONS 0991731 REPLACE CHILLER POEN CENTRIFICAL 300 TONS 0991770 REPLACE C

REPAIR DUAL DUCT UNIT 6500 CFM

CACES

0941212 PREV MAINT ANNUAL - DUAL DUCT 6500 CFM
0941213 PREV MAINT REPL FLTRS - DUAL DUCT 6500
0941220 00000 CFM
0941221 REPAIR DUAL DUCT UNIT - 6500 CFM
0941222 PREV MAINT ANNUAL-DUAL DUCT 10000 CFM
0941223 PREV MAINT ANNUAL-DUAL DUCT 10000 CFM
0941232 PREV MAINT ANNUAL - DUAL DUCT 10000 CFM
0941233 PREV MAINT REPL FLTRS - DUAL DUCT 25000 CFM
0941233 PREV MAINT REPL FLTRS - DUAL DUCT 25000 CFM
0941234 PREV MAINT ANNUAL - 50000 CFM
0941242 PREV MAINT REPL FLTRS - DUAL DUCT 25000 CFM
0941243 PREV MAINT REPL FLTRS - DUAL DUCT 25000 CFM
0941243 PREV MAINT REPL FLTRS - DUAL DUCT 25000 CFM
0941244 PREV MAINT REPL FLTRS - DUAL DUCT 25000 CFM
0941242 PREV MAINT REPL FLTRS - DUAL DUCT 25000 CFM
0941241 REPAIR DUAL DUCT UNIT - 50000 CFM
0941242 PREV MAINT REPL FLTRS - DUAL DUCT 25000 CFM
0941310 FREV MAINT REPL FLTRS - DUAL DUCT 50000
0941311 REPAIR 3-DECK MULTI-ZONE UNIT - 6500 CFM
0941320 FREV MAINT REPL FLTRS - 3DECK MULTI-Z 6500
0941314 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 6500 CFM
0941320 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 6500 CFM
0941320 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 6500 CFM
0941320 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 6500 CFM
0941320 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 6500 CFM
0941330 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
0941334 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
0941334 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
0941334 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
0941334 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
0941334 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
094134 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
094134 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
094134 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
094134 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
094134 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
094134 PREV MAINT REPL FLTRS - 3DECK MULTI-Z 65000 CFM
094134 PREPAIR SDECK MULTI-Z 0000 CFM
094134 PREPAIR S 0941330 0941331 0941334 0941342 0941341 0941341 0941410 09414112 09414114 0941414 0941421 0941422 0941422 0941433 0941433 0941433 0941433

REPAIR DUAL DUCT VAR VOL SYSTS - 6500CFM
PREV MAINT ANNUAL-DUAL DUCT VAR VOL 6500
REPLACE DUAL DUCT VAR VOL WR 6500
A REPLACE DUAL DUCT VAR VOLUME 6500 CFM
REPLACE DUAL DUCT VAR VOLUME-10000
REPLACE DUAL DUCT VAR VOL 10000
REPLACE DUAL DUCT VAR VOL 10000
REPLACE DUAL DUCT VAR VOL 10000
REPLACE DUAL DUCT VAR VOL 10000 CFM
SEPLACE DUAL DUCT VAR VOL 10000 CFM
PREPLACE DUAL DUCT VAR VOL 10000 CFM
REPLACE DUAL DUCT VAR VOL 10000 CFM
REPLACE DUAL DUCT VAR VOL 55000 CFM
REPLACE DUAL DUCT VAR VOL 55000 CFM
REPLACE DUAL DUCT VAR VOL 55000 CFM

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094194, REPAIR OF THE FAN COLL UNIT - 1200 CFN
0941942 REPU MAIN REPLE FIRS. 2PIPE FAN 1200CFN
0941943 REPUAGE 2 PIPE FAN COLL UNIT - 1200 CFN
094140 Can Pepel Fan Coll UNIT - 1200 CFN
0941410 REPLACE 2 PIPE FAN COLL UNIT - 200 CFN
094141 REPAIR 4 PIPE FAN COLL UNIT - 200 CFN
094142 REPAIR 4 PIPE FAN COLL UNIT - 200 CFN
094142 REPAIR 4 PIPE FAN COLL UNIT - 200 CFN
094142 REPAIR 4 PIPE FAN COLL UNIT - 200 CFN
094142 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094142 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 400 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 600 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 600 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 600 CFN
094143 REPAIR 4 PIPE FAN COLL UNIT - 1200 CFN
094143 REPAIR 6 PIPE FAN COLL UNIT - 1200 CFN
094143 REPAIR 6 PIPE FAN COLL UNIT - 1200 CFN
094143 REPAIR 6 PIPE FAN COLL UNIT - 1200 CFN
094180 CFN
094143 REPAIR 6 PIPE FAN COLL UNIT - 1200 CFN
094181 REPAIR UNIT VENT - 400 CFN
094181 REPAIR UNIT VENT - 400 CFN
094181 REPAIR UNIT VENT - 400 CFN
094182 REPAIR NIT REPLETING E 2 DRAW THRU - 600 CFN
094182 REPAIR SINGLE ZONE DRAW THRU - 600 CFN
094182 REPAIR SINGLE ZONE DRAW THRU - 5000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 5000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 5000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 5000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 25000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 25000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 25000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 25000 CFN
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094123 REPAIR SINGLE ZONE DRAW THRU - 25000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 25000 CFN
094123 REPAIR SINGLE ZONE DRAW THRU - 25000 CFN
094123 REPAIR SINGLE ZONE DRAW TH

09A1712 PREV MAINT REPLE LETRS-PPIPE INDUCT 6500 CFM
09A1714 PREV MAINT REPLE LETRS-PPIPE INDUCT 6500 CFM
09A1720 10000 CFM
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DESCRIPTION

0981000 EQUIPMENT, VENTILATION SYS.
0982000 FIXTURES, VENTILATION SYS.
0982100 FORCE DATT FANS
0982110 FORCE DATT FAN 10,000 CFM
098211 FAIR FAN-FORCE DRAFT FAN 10,000 CFM
0982112 FAURENT-FORCE DRAFT FAN 10,000 CFM
098212C AD DRAFT FAN 10,000 CFM
098212C AD DRAFT FAN 10,000 CFM
098212C REPAIR FAN-IND DRAFT FAN 10,000 CFM
098212C REPAIR FAN-IND DRAFT FAN 10,000 CFM
0982000 DI TRIBUTION SYSTEMS, VENT. SYS.

09C0000 EXHAUST SYSTEMS
09C110° EXHAUST FAN
09C110° EXHAUST FAN 200 CFM
09C1112 PREV MAINT CLEANING - EXHAUST FAN 200CFM
09C1112 PREV MAINT CLEANING - EXHAUST FAN 200CFM
09C1121 PREV MAINT CLEANING - EXHAUST FAN 200CFM
09C1122 PREV M. NT - EXHAUST FAN 100° CFM
09C1123 REPLACE ROOT MOUNTS EXHAUST FAN 100° CFM
09C1131 REPAIR EXHUST FAN 100° CFM
09C1131 REPAIR EXHUST FAN 100° CFM
09C1133 REPLACE EXHAUST FAN 100° CFM
09C1133 PREVENTIVE MAINT: EXHAUST FAN 100° CFM
09C1143 REPLACE EXHAUST FAN 250° CFM
09C1143 REPLACE EXHAUST FAN 250° CFM
09C1143 REPLACE EXHAUST FAN 250° CFM
09C1150 EXHAUST FAN 250° CFM
09C1151 REPAIR EXHAUST FAN 50° CFM
09C1152 PREVENTIVE MAINT: EXHAUST FAN 50° CFM
09C1154 REPLACE EXHAUST FAN 50° CFM
09C1156 EXHAUST FAN 50° CFM
09C1157 REPLACE EXHAUST FAN 50° CFM
09C1160 EXHAUST FAN 50° CFM
09C1161 REPLACE ROOF MOUNTED EXHAUST FAN 50° CFM
09C1162 PREVENT MAINT EXHAUST FAN 50° CFM
09C1163 REPLACE ROOF MOUNTED EXHAUST FAN 50° CFM
09C1167 REPLACE ROOF MOUNTED EXHAUST FAN 50° CFM

DISTRIBUTION SYSTEMS, EXHAUST SYS. FIXTURES, EXHAUST SYS. 0 METAL FLUE/CHIMNEY 101 REPLACE METAL FLUL 09C2U00 FIXT 09C2100 ME 09C2101

0900000 SPECIAL SYSTEMS
0901000 CLEAN ROOMS
0902000 RF SHIELDING
0903000 PAINT SPRAY BOOTHS
0904000 SPECIAL AIR FILTRATION
0905100 HUMINITY CONTROL SYSTEMS
0905100 ROOM HUMIDIFIER, FLOOR TYPE

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DF SCR 1 PT 1 ON

0941C44 REPLACE SINGLE ZONE DRAW THRU - SOUDOCFH
0941C50 SINGLE ZONE DRAW THRU 1000 CFH
0941C52 PREVIEW SINGLE ZONE DRAW THRU 1000 CFH
0941C53 REPLATE SINGLE ZONE DRAW THRU 1000 CFH
0941C63 REPLATE SINGLE ZONE DRAW THRU 1000 CFH
0941C64 REPLATE SINGLE ZONE DRAW THRU 1000 CFH
0941C64 REPLATE SINGLE ZONE DRAW THRU 2500 CFH
0941C65 REPLATE SINGLE ZONE DRAW THRU 2500 CFH
0941C64 REPLATE SINGLE ZONE DRAW THRU 2500 CFH
0941D10 UNIT HEATER SINGLE ZONE DRAW THRU 2500 CFH
0941D20 TREPLATE UNIT HEATER - 400 CFH
0941D20 TREPLATE UNIT HEATER - 1200 CFH
0941D21 REPLATE UNIT HEATER - 400 CFH
0941D23 REPLACE UNIT HEATER - 1200 CFH
0941D23 REPLACE UNIT HEATER - 1200 CFH
0941D33 REPLACE UNIT HEATER 4000 CFH
0941D33 REPLACE UNIT HEATER 2000 CFH
0941D33 REPLACE UNIT HEATER 2000 CFH
0941D34 REPLATE UNIT HEATER 2000 CFH
0941D35 REPLACE UNIT HEATER 8000 CFH
0941D36 LAST REPLACE GAS FIRED RAD HEAT 50 MBH
0941E1 REPLATE REAL PUMP 5 T ONS
0941E12 REPLATE REAL PUMP 5 T ONS
0941E12 REPLATE REAL PUMP 1 T ONS
0941E12 REPLATE HEAT PUMP 10 TONS
0941E13 REPLACE HEAT PUMP 1 T THRU-WALL UNIT
0941E10 CHAIN HEAT PUMP 1 T THRU-WALL UNIT
0941E10 CHAIN HEAT PUMP 1 T THRU-WALL UNIT
0941E10 CHAIN HEAT PUMP 1 T TONS
0941E13 REPLACE HEAT PUMP 1 T TONS
0941E13 REPLACE HEAT PUMP 1 T TONS
0941E13 REPLACE HEAT PUMP 1 T THRU-WALL UNIT
0941E10 CHAIN HEAT PUMP 1 T TONS
0941E13 REPLACE HEAT PUMP 1

09A3000 DISTRIBUTION SYSTEMS, H &

0980000 VENTILATION SYSTEMS

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Army Wide Task/Basic Task Structure List

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1114101 REPAIR TRANSFORMER, LIQUID FILLED AB 600
1114103 REPLACE TRANSFORMER, LIQUID FILLED AB600
1114200 TRANSFORMER, DRY, AB096
1114200 TRANSFORMER, DRY, AB096
1114200 TRANSFORMER, DRY, AB15000 V
1114202 REPLACE TRANSFORMER, DRY, AB 15000 V
1114200 POWER PROTICE TION EQUIPMENT V
1115100 SWITCHGEAR, INDOOR, 0-600 V
1115100 SWITCHGEAR, INDOOR, 0-600 V
1115101 REPLACE SWITCHGEAR, INDOOR, 0-600 V
1115201 SREPLACE SWITCHGEAR, INDOOR, 0-600 V
1115201 SWITCHGEAR, INDOOR, 0-600 V
1115201 SREPLACE SWITCHGEAR, INDOOR, 0-600 V
1115201 MAINT & REPAIR TRANSFORMER, LIQUID BLCOON V
1116101 MAINT & REPAIR TRANSFORMER, DRY BLISOON V
1116202 TRANSFORMER, DRY BLCOON V
111700 LIGHTHING DRY TRANSFORMER, DRY BLISOON V
111700 LIGHTHING DRY TRANSFORMER, DRY BLOON V
111700 LIGHTHING DRY REALER, INDOOR, BLCOON V
111700 LIGHTHING DRY REALE MERMORER, INDO R
111701 REPLACE SWITCHGEAR, INDOOR, BLCOON V
111700 CLIGHTHING DRY BLICHGEAR, INDOOR, BLCOON V
111700 CABLE, THERMOPLASTIC, 601-15, 000 V
111710 REPLACE CABLE, THERMOPETASTIC, 601-15, 000 V
1118201 CABLE, THERMOPLASTIC, 601-15, 000 V
1118201 CABLE, THERMOPLASTIC, 600-15, 000 V
1118201 CABLE, THERMOPLASTIC, 600-15, 000 V
1118201 CABLE, THERMOPLASTIC, 600-15, 000 V
1118201 REPLACE SHAINT SWITCHGEAR, INDOOR, BLCOON V
1118201 REPLACE SHAINT SWITCHGEAR, INDOOR, BLCOON V
1118201 CABLE, THERMOPLASTIC, 600-15, 000 V
1118201 CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1118801 REPLACE EMT CONDUIT, POWER & LIGHT DIST 19000 SPECIAL EQUIPMENT 119100 METER, DARSONVAL GALVANOMETER
DESCRIPTION
CACES
                                                                                                                                                                                                                                                                                                                                OPETITO THERMOSTATS/PREUMATICS
OPETITO THERMOSTATS/PREUMATICS
OPETITO THERMOSTATS/PREUMATICS
OPETITO HUMIDITY SENSOR
OPETIZO HUMIDITY SENSOR
OPETIZO REPLACE PREUMATIC THERMOSTAT
OPETIZO REPLACE HUMIDISTAT
OPETIZO REPLACE FICAM SENSOR
OPETIZO MIND VELOCITY SENSOR
OPETIZO PREVENT MAINT NIND VELOCITY SENSOR
OPETIZO PREVENT MAINT PRESSURE SENSOR
OPETIZO PREVENT MAINT PRESSURE SENSOR
OPETIZO DAMPER CONTROLLER?
OPETIZO DAMPER CONTROLLER?
OPETIZO DAMPER CONTROLLERS
OPETIZO DAMPER CONTROLLER - ELECTRICAL
OPETIZO DAMPER CONTROLLERS
OPETIZO DAMPER CONTROLLER SIMPLEX AIR COMPRESSORS
OPETIZO SIMPLEX AIR COMPRESSOR I HORSE POWER
OPETIZO SIMPLEX AIR COMPRESSOR, 1 HP
OPETIZO SIMPLEX AIR COMPRESSOR, 1 HP
OPETIZO CHECK AND ADJUST-SIMPLEX AIR COMPRESSOR, 1 HP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1110000 SERVICE & DISTRIBUTION
1112000 OVERHEAD SERVICE FEEDER
1112001 REPAIR CABLE SPLICE-OVERHEAD SERV FEEDER
1112002 CABLE INSPECTION-OVERHEAD SERV FEEDER
1112003 MAIN PROTECTION EQUIPMENT
1113100 MAIN PROTECTION EQUIPMENT
1113101 REPAIR SWITCHGEAR-MAIN PROTECT EQUIPMENT
1113101 REPAIR SWITCHGEAR-MAIN PROTECT EQUIPMENT
1113103 REPLACE SWITCHGEAR 1200 AMP
                                                         REPAIR ROOM HUMIDIFIER, FLOOR TYPE PREV MAINT CLEANING-RM HUMIDIFIER, FI REPLACE ROOM HUMIDIFIER, FLOOR TYPE
                                                                                                                                                                                                                                        09E0000 CONTROLS AND INSTRUMENTATION 
09E1000 DEVICES 
09E1100 THERMOSTATS/PNEUMATICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09F0000 TESTING, BALANCE, ETC.
09F1000 TEST AND BALANCE
09F2000 IDENTIFICATION SYSTEMS
DESCRIPTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1100000 INTERIOR ELECTRICAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         113200 FUSE
1113201 REP
                                                                                                                                                                     OTHER
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14000 PRIMARY TRANSFORMER 1114100 TRANSFORMER, LIQUID FILLED ABOVE 600

REPLACE FUSE

1113200

1114000

09F1000 09F2000 09F3000

09E2000

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Army Wide Task/Basic Task Structure List

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11223A2 PREV MAINT CIRC BREAKER FIXED > 600V 1P
11223A2 REPLC LICC BREAKER FIXED > 600V 2P
11223B0 CIRCUIT BREAKER FIXED > 600V 2P
11223B1 REPR FAILED CIRC BREAKER FIXED > 600V 2P
11223B2 REPLACE CIRC BREAKER FIXED > 600V 2P
11223C0 CIRCUIT BREAKER FIXED > 600V 2P
11223C0 CIRCUIT BREAKER FIXED > 600V 3P
11223C0 CIRCUIT BREAKER FIXED > 600V 3P
11223C1 REPR FAILED CIRC BREAKER FIXED > 600V 3P
11223C1 REPR FAILED CIRC BREAKER FIXED > 600V 3P
11223C2 REPLACE CIRC BREAKER FIXED > 600V 3P
11223C3 REPLACE CIRC BREAKER FIXED > 600V 3P
11224C1 SAFETY SWITCH FUSED IP
11224C1 SAFETR OFFOR STARTER, O-600 V
11224C0 MOTOR STARTER, O-600 V
11225C0 MOTOR STARTER, O-600 V
11235C0 MOTOR STAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1130000 LIGHTING SYSTEM
1131000 LIGHTING FIXTURES
1131100 INCANDESCENT LIGHTING FIXTURE
1131101 MAINT BREPAIR INCANDESCENT LIGHT FIXTURE
1131102 REPLACE LAMP, INCANDESCENT LIGHT FIXTURE
           DESCRIPTION
       CACES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1122000 POWER SYSTEM
1122100 SAFTEY SWITCHES & BREAKERS
1122101 MAINT & REPAIR SYSTEM
1122102 PREV MAINT & INSP SAFETY SWITCH, ENCLOSED
1122102 PREV MAINT & INSP SAFETY SWITCH, ENCLOSED
1122102 PREV MAINT & INSP SAFETY SWITCH, ENCLOSED
1122102 CIRCUIT BREAKER, MC, 0-599 V
1122112 PREV MAINT&INSP CIRCUIT BREAKER, MC, 0-599 V
1122313 REPLACE CIRCUIT BREAKER, MC, 0-600-112230 CIRCUIT BREAKER, MC, 0600 V AND OVER
112232 REPLACE CIRCUIT BREAKER, MC, 0600-V AND OVER
112232 REPLACE CIRCUIT BREAKER, MC, 0600-V AND OVER
112233 REPLACE CIRCUIT BREAKER, FIXED, 0-599 V
112233 PREV MAINT&INSP CIRCUIT BREAKER, FIXED, 0-599 V
112233 PREV MAINT&INSP CIRCUIT BREAKER, FIXED, 0-599 V
112233 PREV MAINT&INSP CIRCUIT BREAKER, FIXED, 0000-V
112234 REPLACE CIRCUIT BREAKER, FIXED, 6000-V
112235 REPLACE CIRC BREAKER, FIXED, 6500-V
112236 CIRCUIT BREAKER, FIXED, 6500-V
112237 REPLACE CIRC BREAKER, FIXED, 6500-V
112239 REPLACE CIRC BREAKER, FIXED, 6500-V
112239 REPLACE CIRC BREAKER, FIXED, 6500-V

                                                                                                                                                                                    119301 MAINT & REPAIR INVERTER, SPECIAL EUIP
1119302 PREV MAINT & INSP INVERTER, SPECIAL EQUIP
1119303 REPLACE INVERTER, SPECIAL EUGIPMENT
119400 RECTIFIER, UNDER 600 V
1119402 PREV MAINT & INSP RECTIFIER, UNDER 600 V
1119403 REPLACE RECTIFIER, UNDER 600 V
                                                                              MAINT & REPAIR METER, DARSONVAL GALVANOM
REPLACE METER, DARSONVAL GALVANOMETER
DESCRIPTION
   CACES
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Army Wide Task/Basic Task Structure List

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1220000 ALARM SYSTEM
1221000 FIRE ALARM SYSTEM
1221101 MANIAL PULL STATIOM
1221101 MANIAL PULL STATIOM
1221101 MAR CHECK AND REPAIR MANUAL PULL STATION
1221200 SMOKE DETECTOR
1221202 CHECK OPERATIOM, SMOKE DETECTOR
1221203 FREPLACE SMOKE DETECTOR
1221300 FIRE ALARM BELL
1221301 REPLACE FIRE ALARM BELL
1221400 ANNUNCIATION PANEL
1221400 ANNUNCIATION PANEL
1221401 PREV MAINT & INSP ANNUNCIATION PANEL
1221403 REPLACE ANNUNCIATION PANEL
1221403 HAT DETECTOR
1221400 HAT DETECTOR
                                                                                                                                                                                                                                    1210000 SOUND SYSTEM
1211000 TELEPHONE SYSTEM
1211000 TELEPHONE SYSTEM
1211101 REPAIR 4-PIN RECEPTACLE, TELEPHONE SYST
1211101 REPLACE 4-PIN RECEPTACLE, TELEPHONE SYST
1211200 TELEPHONE CABLE
1211200 TELEPHONE CABLE
1211200 REPLACE TELEPHONE CABLE, 22 AWG, 4 PAIR
1212000 INTERCEMPONE CABLE, 22 AWG, 4 PAIR
1212001 INTERCEMPONE CABLE, 22 AWG, 4 PAIR
1212001 INTERCEMPONE SYSTEM
1212001 MAINTENANCE AND REPAIR
1214000 PUBLIC ADDRESS SYSTEM
1214000 RADIO COMMUNICATION SYSTEM
1214001 MAINTENANCE AND REPAIR
1215000 DOOR BELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1221501 REPAIR HEAT DETECTOR
1221501 REPAIR HEAT DETECTOR
1221502 CHECK OPERATION HEAT DETECTOR
1221503 REPLACE HEAT DETECTOR
1221503 FIRE ALARM CONT. PANEL
1221600 FIRE ALARM CONT. PANEL
1221602 PREVENT MAINT & INSP FIRE ALRM CONT PANEL
1222000 INTRUBER DETECTION SYSTEM
1222001 MAINTENANCE AND REPAIR
                                                           MAINT & REPAIR SPECIAL GROUND SYSTEM REPLACE SPECIAL GROUND SYSTEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REPAIR DOOR BELL
PREVENT MAINT AND INSPEC DOOR BELL
REPLACE DOOR BELL
                                                                                                                                                                               1200000 SPECIAL INTERIOR ELECTRICAL SYSTEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1230000 TELEVISION SYSTEM
1232000 CLOSED CIRCUIT TV SYSTEM
1232001 MAINTENANCE AND REPAIR
1233000 TV CABLE OUTLET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1223001 MAINTENANCE AND REPAIR
  DESCRIPTION
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1215002
1215003
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CACES
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1141001 MAINT & REPAIR-ELECTIRCAL SERVICE GROUND
1141002 REPLACE ELECTRICAL SERVICE GROUND
1142002 BUILDING STRUCTURE GROUND
1142001 MAINT & REPAIR BUILDING STRUCTURE GROUND
1142002 REPLACE BUILDING SERVICE GROUND
1143000 LIGHTNING PROTECTION
1143100 LIGHTNING PROTECTION SYS. GENERAL
1143111 MAINTENANCE & REPAIR LIGHTNING
1143112 REPLACE LIGHTNING PROTECTION SYS. GROUNDING ROD
1143510 LIGHTNING PROTECTION SYS. GROUNDING ROD
1143511 MAINTENANCE AND REPAIR-LIGHTNING GRO. OCT. WILLIAGE SYSTEM GROUNDING ROD
1143512 REPLACE LIGHTNING GROUNDING ROD
                                                                                                                                                                                                                                                                                                                                                        1131410 HID, MERCURY VAPOR FIXTURE, 250-W
1131411 MAINTEREPAIR HID, MERCURY VAPOR F, 250 W
1131412 REPLACE LAMP-HID, MERCURY VAPOR F, 250 W
1131421 REPLACE FIXTURE, HID, MERCURY VAPOR 250 W
1131420 HID, METAL HALD FIXTURE, 250-W
1131422 REPLACE FIXTURE, HID, METAL HALID FIXTURE, 250
1131423 REPLACE LAMP, HID, METAL HALID FIXTURE, 250
1131423 REPLACE LAMP, HID, METAL HALID FIXTURE
1131501 MAINT & REPAIR EMERGENCY LIGHTING FIXTURE
1131503 REPLACE EMERGENCY LIGHTING FIXTURE
1131503 REPLACE EMERGENCY LIGHTING FIXTURE
1131610 H.D. 250 WATT
1131611 MAINT & REPAIR H.D. 250 WATT
1131612 REPLACE LAMP, SODIUM FIXT H.P. 250 WATT
1131621 AMAINT & REPAIR, SODIUM FIXT L.P. 200 WATT
1131621 REPLACE LAMP, SODIUM FIXT L.P. 200 WATT
1131623 REPLACE SODIUM FIXT L.P. 200 WATT
1131623 REPLACE SODIUM FIXT L.P. 200 WATT
1131623 REPLACE SODIUM FIXT L.P. 200 WATT
                                                                                      1131200 QUARTZ LIGHTING FIXTURE
1131201 MAINT & REPAIR QUARTZ LIGHT FIXTURE
1131202 REPLACE LAMP, QUARTZ LIGHTING FIXTURE
1131300 REPLACE QUARTZ LIGHTING FIXTURE
1131300 FLUORESCENT LIGHTING FIXTURE
1131301 MAINT & REPAIR FLUORESCENT LIGHT FIXTURE
1131302 REPLACE FLUORESCENT LIGHT FIX
1131303 REPLACE FLUORESCENT LIGHT FIX
                                                              REPLACE INCANDESCENT LIGHTING FIXTURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EXIT LIGHT
REPAIR EXIT LIGHT
REPAIR LAMPS EXIT LIGHT
REPLACE LIGHTING FIXTURE-EXIT LIGHTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MAINT & REPAIR COMPUTER SYSTEM GROUND REPLACE COMPUTER GROUND SYSTEM
DESCRIPTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GROUNDING SYSTEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EXIT
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1131702
1131703
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  CACES
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MAINTENANCE AND REPAIR TV CABLE OUTLET
REPLACE TV CABLE OUTLET

Army Wide Task/Basic Task Structure List

CACES

DESCRIPTION

1274000 DUCT HEATERS
1274001 MAINT & REPAIR DUIT HEATERS
1274002 PREV MAINT & INSP DUCT HEATI

1280000 POWER GENERATING SYSTEM
1281100 GENERATOR SETS
1281100 GENERATOR SETS
1281100 GENERATOR GASOLINE POWERED
1281102 PREV MAINT GENERATOR COMPOWENT, GASOLINE
1281200 GENERATOR, DIESEL
1281200 GENERATOR, DIESEL
1281200 GENERATOR, DIESEL
1281200 GENERATOR, DIESEL
1281303 REPLACE GENERATOR COMPOWENT
1281303 REPLACE GENERATOR, VAPOR GAS POWERED
1281303 REPLACE GENERATOR, STEAM TURBINE
1281407 TURBINE
1281413 REPLACE GENERATOR, STEAM TURBINE
1281420 GENERATOR, STEAM TURBINE
1281421 REPLACE GENERATOR, COMPOWENT, VAPOR GAS
1281420 GENERATOR, GAS TURBINE
1281422 REPLACE GENERATOR COMPOWENT, GAS TURBINE
1281423 REPLACE GENERATOR COMPOWENT, GAS TURBINE
1281501 MAINT & REPLACE GENERATOR, GAS TURBINE
1281503 REPLACE TRANSFER SUITCH
1281503 REPLACE TRANSFER SUITCH
1282100 STATIC CHARGER, BATTERY
1282100 MAINT & REPAIR STATIC CHARGER, BATTERY
1282200 MOTOR GENERATOR, BATTERY
1282201 MAINT & REPAIR MOTOR GENERATOR, BATTERY
1282201 MAINT & REPAIR MOTOR GENERATOR, BATTERY
1282201 MAINT & REPAIR MOTOR GENERATOR, BATTERY
1282201 PREV MAINT BATTERY PRIMARY WET
1283300 BATTERY, PRIMARY WET
1283301 BATTERY, PRIMARY WET
1283301 PREV MAINT BATTERY SECONDARY WET
1283301 PREV MAINT BATTERY SECONDARY WET
1283301 PREV MAINT BATTERY, SECONDARY WET
1283301 PREV MA

\*\*\*\*\* Finished \*\*\*\*\*

1241000 ENERGY MARAGEMENT SYSTEM 1241001 MAINTENANCE AND REPAIR 1242001 RAINTENANCE AND REPAIR 1242001 MAINTENANCE AND REPAIR 1243000 LIGHT DIMMING PANEL 1243002 PREV MAINT & INSPEC- LIGHT DIMMING PANEL 1243003 REPLACE LIGHT DIMMING PANEL **DESCRIPTION** 1250000 HOSPITAL SYSTEM CACES

1251000 MURSE CALL
1251001 MAINTENANCE AND REPAIR
1252000 DOCTOR PAGING
1252001 MAINTENANCE AND REPAIR
1253001 DOCTOR REGISTER
1254001 MAINTENANCE AND REPAIR
1255001 MAINTENANCE AND REPAIR
1255001 MAINTENANCE AND REPAIR
1255001 MAINTENANCE AND REPAIR
1256001 OXYGEN ALARM
1256001 MAINTENANCE AND REPAIR

1260000 CLOCK & PROGRAM SYSTEM
1261000 CLOCK AND PROGRAM SYSTEM
1261100 TIME CONTROL CLOCK
1261101 MAINT & REPAIR INE CONTROL CLOCK
1261102 CHECK OPERATION - TIME CONTROL CLOCK
1261103 REPLACE TIME CONTROL CLOCK

1270000 ELECTRIC HEATING SYSTEM
1271000 BASEBOARD HEATERS
1271001 MAINT & REPAIR BASEBOARD HEATERS
1271001 PREV MAINT & INSP BASEBOARD HEATERS
1271003 RELACE BASEBOARD HEATER
1272000 WALL & CEILING HEATERS
1272101 MAINT & REPAIR 'ALL MOUNTD & RECESSO MEN
1272101 MAINT & REPAIR 'ALL MOUNTD & RECESSO FAN
1272102 REV MAINT& NEPRINED' COMMERCIAL
1272201 MAINT & REPAIR RADIANT SUSPEND, COMMERCIAL
1272201 MAINT & REPAIR RADIANT SUSPEND, COMMERCIAL
1272201 MAINT & REPAIR INFRARD SUSPEND, COMMERCIAL
1272301 MAINT & REPAIR INFRARD SUSPEND, COMMERCIAL
1272302 PREV MAINT INSP INFRARD SUSPEND, COMMERCIAL
1272301 MAINT & REPAIR INFRARD SUSPEND, COMMERCIAL
1272301 MAINT & REPAIR STANDARD SUSPEND HEATER
1273100 STANDARD SUSPENDED HEATER
1273101 MAINT REPAIR STANDARD SUSPENDE HEATER
1273101 MAINT REPAIR STANDARD SUSPENDE HEATER
1273101 KAINT & REPAIR STANDARD

PREV MAINT INSP EXPLOSION PROOF INDUS REPLACE HEATER, EXPLOSION PROOF INDUST

APPENDIX J:

PERCENTAGE OF MAINTENANCE COST BY HIGH COST COMPONENTS FOR ALL BUILDINGS

F4C CODE : 0000000			
120 YEARS SUMMARY			
CACES 1D COMPOSENT	COMPOYENT DESCRIPTION	DOLLAR AHOUNT	PERCENT OF TOTAL
0000000 TOTAL DOLL	TOTAL DOLLAR AMOUNT FOR YEARS	6780304000.	
0311100 BUILT-UP ROOFING 0511550 SHEEROCK (UNSTI 0524210 HOLLOR-CRE(PAIN 0524210 CHILLER-CRE(PAIN 0525110 HOLLOR-CRE(PAIN 0525110 THERMOSTAS/PNEU 0525110 THERMOSTAS/PNEU 0525110 THERMOSTAS/PNEU 0521130 SHITCHGERR, INDO 052130 SHEFROCK (UNSTI 0521320 CHILLER FROCK (UNSTI 05213210 SHEFROCK (UNSTI 052520 HETAL 0511100 EXHERRER HEATER 0511100 EXHABSHER 0511100 EXHABSHER 0511100 CONCRETE BLOCK (UNSTI 052520 HETAL 052520 HOT WATER HEATER 051120 CERANIC TILE WAL 0525210 DISRHWASHER 052520 HETAL 052520 HETAL 0525210 DISRHWASHER 052520 HETAL	NATIPPLED) WALL FI OCOL RECLOS THE FLOORING COOL RECLOS TO OS TILE FLOORING LIGHTING FIXTURE INDOOR, BELOW 600 PINCOOR, BELOW 600 NSTIPPLED) CEILING WSTIPPLED) CEILING WSTIPPLED) CEILING WSTIPPLED) WALL FINISH CAS/OIL TS GAL LIGHTING FIXTURE CAS/OIL TS GAL LIGHTING WALL FINI WGS WALL FINI WGS WITHOUS WALL FINI WGS WITHOUS WALL FINI WGS WITHOUS WALL FINI WGS WITHOUS WALL FINI WGS WALL FINI WA	24736800. 277865700. 26559700. 182514800. 1124614800. 1124614800. 1126685700. 112668500. 112668500. 112668500. 112668500. 112668500. 112668500. 112668500. 112668500. 112668500. 112668500. 112668500. 112668500. 112668500. 11266800. 1126800	8.4.4.8.9.9.4.6.4.2.5.4.6.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4

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                          BATTERY, SECONDARY DRY
CIRCUIT RECAKER, FIXED 0-599
SINGLE SOWE DRA THRU 1000 CFH
MOTOR STAFTER, 0-600 V
HOLLOW CORE(PAINTED) SLIDING IN
STEEL INTERIOR FINISH (PAINTED
CONCRETE DECKING - PORCH
HOT WATER HIR, GAS/OIL 30 GAL
TANKLESS WATER CLOSET
ALUMINUM FRAME SCREEN COVER 1S
SOLID CORE (PAINTED) SLIDING I
TANKLESS WATER CLOSET
ALUMINUM FRAME SCREEN COVER 1S
SOLID CORE (PAINTED) SLIDING I
ALUMINUM OFERABLE WINDOWS 1ST
WOOD FUNISHED INTERIOR WA
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LANGORY, IROM, ENAMEL
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R FINISH 3RD+  3/8" - 1 1/2"  RING  RING  RING  RING  RING  BING  OCH  11/2"  (ANODZD) FIN.  FRM.OPER.UNDW  INTERIOR FIN.  FRM.OPER.UND  TORFINISH FIR  EXTERIOR FIN.  FRM.OPER.UND  TERIOR DOOR  RIMING  RIMING  RIMING  RIMING  RIMING  RIMING  RIMING  RIMISH FIR  RIMING	
EKTERIOR FINISH 3RD+ JUNDRAIN 3/8" - 1 1/2"  ILE FLOORING  SES AND RELAYS  HER LAND  HERRAZO  FRAZO  FRAZO  FRAZO  FRAZO  FRAZO  FRAZO  FRAZO  FRA CAST IRON  WE 3/8" - 1 1/2"  SIDING (ANODZD) FIN.  FAN ZSOOO CFM  ONE DRAW THRU ZSOO CFM  EXTERIOR FINISH FIR  SECONDARY WET  CK EXTERIOR FINISH FIR  SECONDARY WET  CK EXTERIOR FINISH FIR  SECONDARY WET  CK EXTERIOR FINISH FIR  SECONDARY WET  SECOND	
CONCRETE EXTERIOR FINISH 3RD+ 2000 BTU  ANALY, NOON BTUIN 3/8" - 1 1/2"  ANALYE, NOON BTUIN 3/8" - 1 1/2"  ANALYE, NOON BTUIN 3/8" - 1 1/2"  CONTACTORS AND RELAYS  TERANSFORMER, LIQUID FILLED ABG  ERANSFORMER, LIQUID FILLED ABG  ERANSFORMER, LIQUID FILLED ABG  SHOWER, TERRAZO  10000 CFM  ANTER CTILE FLOORING  STEAN TRAP, EST 1ROW  2000 BTUIN CANDON FRM. OPER. WND  2000 BTUIN CANDON FRM. OPER. WND  2000 EXTERIOR GATE  ANTERY SECONDARY WET  ANTER HIR GAS/OIL 1000 GA  FRANSFORMER (PAINT) FIXED WND.  ANTER HATER ELEC. 52 GAL.  FOON FRAME (PAINT) EXTERIOR FIN. 15  AND SRAME (PAINT) EXTERIOR FIN. 15  AND SRAME (PAINT) EXTERIOR FIN. 15  AND STAME ANTER ELEC. 1000 GA  FRANSFORMER, DAY BELOU 15,000  GENERATOR, GAS TIRBILE  ANTER HATER ELEC. 1000 GA  FRANSFORMER, DAY BELOU 15,000  GENERATOR, GAS TIRBILE  ANTINGAR HATER ELEC. 1000 GA  FRANSFORMER, DAY BELOU 15,000  ANTER HATER HATER ELEC. 1000 GA  FRANSFORMER, DAY BELOU 15,000  GENERATOR, GAS TIRBILE  ANTER HATER HATER ELEC. 1000 GA  FRANSFORMER, DAY BELOU 15,000  GENERATOR, GAS TIRBILE  ANTER HATER HATER ELEC. 1000 GA  FRANSFORMER, DAY BELOU 15,000  GENERATOR, GAS TIRBILE  ANTER HATER HATER ELEC. 1000 GA  FRANSFORMER, DAY BELOU 15,000  ANTER HATER HATER ELEC. 1000 GA  FRANSFORMER, DAY BELOU 15,000  GENERATOR, GASOLINE POWERD  ANTER HATER HATER ELEC. 1000 GA  FRANSFORMER CANDON FROME CANDON  ANTER HATER HATER ELEC. 1000 GA	
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CONCRETE EXTERIOR FINISH 2ND
RUBBER / VINYL TRIMMING
ALUMINUM FRAME STORM WINDOWS 1
WALLPAPER INTERIOR WALL FIN.
HOT WATER HTR, GAS/OIL 1000 GP
PIPE & FITTINGS, STEEL OR CAST
STEEL PAINTED INTERIOR DOOR
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SWITCHGEAR, INDOOR ABOVE 600 V
PIPE FITTINGS, STEEL/IRON
FLOOD FRAME (PAINT) FIXED WIND.
HOT WATER HEATER ELEC. 52 GAL.
VINAL INTERIOR WALL FIN.
50 TONS
DAMPER COMTROLLER - ELECTRICAL
STEEL (PAINT) EXTERIOR FIN. 15
SINK, ENAMELED STEEL
HOT WATER HATER ELEC. 1000 GA
TRANSFORMER, GAS TURBINE
WOOD SINGLE ROLL-UP DOORS
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FORMICA - VINYL EXTERIOR FIN.
400 CFM
METAL WINDOW GRATINGS 1ST FLOO
METAL WINDOW GRATINGS 1ST FLOO
MOSE BIBB
WOOD FRAME (PAINT) FULL GLZO.
ELECTRICAL SERVICE GROUND
WOOD INTERIOR STEPS
PANEL (LAHINAED) INTERIOR WALL
CLAY BRICK EXTERIOR FINISH SEC
WOOD INTERIOR STEPS
PANEL (LAHINAED) INTERIOR WALL
CONCRETE BLOCK (WP/P) EXT. FIN
                   WALVE, NON-DRAIN 3/8" - 1 1/2"
QUARRY TILE FLOORING
CONTACTORS AND RELAYS
SHOWER, TERRAZO
10000 CFM
BATH TUB, CAST IRON
1200 CFM
CAN TRAP, F&T<1"
400 CFM
EXMAUST FAN 25000 CFM
EXMAUST FAN 25000 CFM
CALVINUM SÍDING (ANODZD) FIN.
25000 CFM
CALVINUM PRICK EXTERIOR FIN.
4-PIN RECEPTACLE
CLAY BRICK EXTERIOR FIN.
4-PIN RECEPTACLE
OUBBLE PANE WOOD FRM. OPER.WND
20 TONS
 CONCRETE EXTERIOR FINISH 3RD+
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WOOD LOUVER IN FRAME ZND FLOOR
ACOUSTICAL TILE CELLING
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EXPANSION CHAMBÉR
EXAMUST FAM, 5000 CFM
ALUMINUM SHOTTER WITH FRAME 1S
EXAMUST FAM, 5000 CFM
ALUMINUM SHOTTER WITH FRAME 1S
CONCRETE BLOCK (WP/P) EXT. FIN
TIMBER (FINISHED) INTERIOR WALL
DOOD CFM
ALUMINUM COCCATD PANEL EXT. FIN
TIMBER (FINISHED) INTERIOR WALL
DOUCTOOIL 1-ROW H.W. 12X24
HEAT DETECTOR
WOOD CFM
ALUMINUM COCCATD PANELS EXT. FI
GAS METER
STEAM VALVE
WOOD CLUVER IN FRAME 3RD FLOOR
HOT WATER ROFTENER ELEC. 2000 GA
BRASS EXTERIOR LOCKSET
GAS METER
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ALUMINUM FRAME STORM WINDOWS 3
GAS COMPRESSOR > 15 HP
EXTL LIGHT
ADDOC CLUVER IN FRAME NOTING
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6500 CFM
ALUMINUM FRAME STORM WINDOWS 3
GAS COMPRESSOR > 15 HP
EXIT LIGHT
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BITUMINUM FRAME STORM WINDOWS STORME TANK, DHW
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CONCRETE EXTERIOR STEED
WOOD LINTERIOR RAILLINGS
STEAM REGULATION VALVE - 2"
EXHAUST FAM 50000 CFM
WOOD EXTERIOR PORCH COLUMNS
ALUMINUM SINGLE ROLL-UP DOOR
FIRE ALARM BELL
SINK, PLASTIC
SINK, PLASTIC
DOUGLE PANE ALUMINUM FIXED WND
HEAT PURP IT
METAL EXTERIOR STAIR RAILING
300 TOWS
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LIGHTNING PROTECTION SYS. GROU
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SWITCHCEAR, INDOOR ABOVE 600 V CAST IRON RADIATOR 10 SECT PORCELAIN PARELS EXTERIOR FIN. 300 TOANS ASD TOANS ASD TOANS CLAT BLOCK WALL FINISH REAL BINGOW GRAINS FINISH CLAY BLOCK WALL FINISH REAL BINGOW GRAINS FINE CONCRETE BRICK (PNTED) EXT. FI INFRARED SUSPENDED, COMMERCIAL AIR SEPARATOR CONCRETE BRICK (PNTED) EXT. FI INFRARED SUSPENDED, COMMERCIAL BINGOW FRAME STORM WINDOW 1ST FL CONCRETE BRICK (PNTED) EXT. FI STORE CONDENSER 100T EXTERIOR GYPSUM BOARD - PAINTE SINGLE GLASS SKYLIGHT UNITS 100 TOANS CONCRETE BRICK WALL FINISH SIRGLE LOUNGES WITCH AND TOANS CONCRETE BRICK WALL FINISH STEEL (GASS SKYLIGHT UNITS FORM CONCRETE BRICK WALL FINISH STEEL (GASS BRITCH AND DAIN 4"-6" GATE VALVE, 2"-3" HERAL GRAFED PAINTED EXT DOOR FLOM SENSOR MOTOR STRERG PINISH SOPH EXTERIOR GYPSUM BOARD - STREEL CANS BRICK (FREING FINISH 18 EXTERIOR GYPSUM BOARD - STREEL CANS BRICK (FREING FINISH 18 BRASS INTERIOR BUTCH FINISH BRASS INTERIOR BUTCH SYLIGHT INTERIOR WALL FIN. SYLIGHT INTERIOR WALL FIN. SYLIC GANS EXTERIOR FINISH BRASS INTERIOR CONCRETE BRICK EXTERIOR FIN. STEEL SRICK EXTERIOR FIN. S
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LEAD-LINED INTERIOR WALL STEEL (SAFI) WALL DOOR STEEL FRAKE SCREEN COVER 2ND F CIRCULATOR PUMP IN HITE WOOD JEINISTER STILL STEEL WOOD FRAME SCREEN COVER 2ND F STEEL FRAME SCREEN COVER 2ND F CONCRETE BRICK EXTERIOR FIN. 2 LEAD-LINED (WOOD) MED CAL INTE WOOD FRAME SCREEN COVER 1ST F WOOD FRAME SCREEN COVER 1ST F WOOD FRAME SCREEN COVER 1ST F WOOD LOUVERED EXTERIOR BOORS FLASH TANK METAL DIPE CHIMNEY, FIREPLACES LOW VOLTAGE CARRIDGE EXT BOLT STEEL EXTERIOR CATE CIRCULATION PUMP > 1 HP. METAL DIPE CHIMNEY, FIREPLACES LOW VOLTAGE CARRIDGE EXT BOORS FILER EXTERIOR CATE CIRCULATION PUMP > 1 HP. METAL DIPE CHIMNEY, FIREPLACES LOW VOLTAGE CARRIDGE EXT BOORS FRESS. REDUCING WALVE, S INCH CONCRETE BRICK (PARED) EXT. FI BLOWOFF SYSTEM CONCRETE BRICK (PARED) EXT. FI BRICK FLOOR ING CERAMIC TILE CELLING CERAMIC TILE CELLING CLAY BRICK EXTERIOR PARCH SUPP CLAY BRICK EXTERIOR PARCH SUP CLAY BRICK (FAVID) EXT. FIN. 3R CLAY BRICK (FAVID) EXT. FIN. LIGHT DIMMING PANEL BRASS EXTERIOR WALL FIN. LIGHT DIMMING PANEL BRASS FREEN WALL FIN. LIGHT DIMMING PANEL BRASS FREEN WALL FIN. LIGHT DIMMING PANEL BRASS FREEN WALL BRICK FARENCE CIGNOUND WROUGHT IRON EXTERIOR STAIR RA CLAY BRICK (FARENCE CIGNOUND WROUGHT IRON EXTERIOR FIN. CONCRETE CHIMMEY, FIREPLACE CIRCULATION SENDER CLAY BRICK FARERICE FARENCE CIRCULATION PUMP GREATER CONCRETE CHIMMEY, FIREPLACE CIRCULATION PUMP GREATER CONCRETE CHIMMEY, FIREPLACE CIRCULATION PUMP GREATER CONCRETE CHIMMEY, FIREPLACE CIRCULATION PANEL FOR WINDOWS ZNO PORCEL RAME STORM WINDOWS ZNO PROCESS THE LING ALLING FOR EXTERIOR FIN.
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PIPE AND FITTINGS, PVC
STOME EXTERIOR FINISH 2ND FLOO
FARRIC CELLING
STOME EXTERIOR FINISH 1ST FLOO
STRUCT. CLAY TILE (WP/P)EXT.FI
WOOD SHAKES (UNFINISH)EXT.FIN.
TERRACOTTA EXTERIOR FINISH
BUILLDING STRUCTURE GROUND
FIREBRICK, FIREPLACE
BUILLDING STRUCTURE GROUND
PLATE GLASS (MOUNTED) CEILING
STEEL FRAME (PAINT) FIXED WNDW
MASONRY INTERIOR STEPS (UNPAIN
LEAD-LINED MINDOW 1ST FLOOR
WIND VELOCITY SENSOR
WETAL MESH PRINTED INTERIOR
STEEL (INSULATED) PAINTED EXT
STEEL (INSULATED) PAINTED EXT
STONE INTERIOR STEPS
MASONRY TILE EXTERIOR FINISH 2N
CERAHIC PAN CEILING
METAL UNPAINTED EXT
STRUCTURAL CLAY TILE EXTERIOR STEPS
MASON TILE EXTERIOR STEPS
WASON TILE EXTERIOR FINISH 1S
GLASS BLOCK EXTERIOR FINISH 1S 061300 0613800 0613820

APPENDIX K:

PERCENTAGE OF MAINTENANCE COST BY COMPONENTS FOR ALL BUILDINGS

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F4C CODE : 0000000 120 YEARS SUMMARY

INSTALLATION: USA

CACES 1D	COMPONENT DESCRIPTION	DOLLAR ANOUNT	PERCENT OF TOTAL
0000000	TOTAL BOLLAR ANGUNT FOR YEARS	6780304000.	
0311210 0311210 0311220 0311310	BUILT-UP ROOFING .MOD. BITUMINGUS / THERMOPLASTI THERMOSETTING SLATE . CEMENT ASBESTOS	341736800. 858225. 10803. 695530. 876193.	3.00.00 9.00.00
2000	TILE ROLL ROOFING SHINGLES	7708940. 23166250. 297083100.	- 75. 75. 75. 75. 75. 75. 75. 75. 75. 75.
8225 8225	FIBERGLASS RIGID, STEEP ROOF CONCRETE, SEALED FAMEL ROOFING	91912780- 848040- 1426440-	82.06
2220	ADOBE EXILENT THIN SECUND F CLAY BRICK EXTERIOR FINISH FIR CLAY BRICK EXTERIOR FINISH SEC	1420965. 8171693. 4945359.	
2330 230 230 230 230 230 230 230 230 230	CLAY BRICK EXTERIOR FINISH THI CLAY BRICK (PAINTED) EXT. FIN.	4184062. 335496.	ş \$
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5420 5430	CONCRETE BRICK EXTERIOR FIN. 2 CONCRETE BRICK EXTERIOR FIN. 3	62929.	888
55.10 55.20	CONCRETE BRICK (PNTED) EXT. FI CONCRETE BRICK (PNTED) EXT. FI	197643. 25236.	86
5.55 5.05 5.05 5.05 5.05 5.05 5.05 5.05	CONCRETE BRICK (PANED) EXT. FI STRUCTURAL CLAY THE EXT. FIN.	33435. 4628.	88
200	SIRUCIUMAL CLAT ILLE EXI: FIN: SIRUCI CLAY ILLE (WP/P)EXI:FI FOWLFETE BIOCK EVERING FIN: 1	694.	969
200	CONCRETE BLOCK EXTERIOR FIN. 2 CONCRETE BLOCK EXTERIOR FIN. 2	242377. 242377.	368
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONCRETE BLOCK (MP/P) EXT. FIN	7556570.	9.F.
930	CONCRETE BLOCK (WF/F) EXT. FIN	2118963.	.03
<b>4</b> 20	CONCRETE EXTERIOR FINISH 2ND F	7219189.	47.
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930	STONE EXTERIOR FINISH 3RD FLOO	2859.	393
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50	TERRACOTTA EXTERIOR FINISH 1ST	4323 [23.	
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35.5	WOOD, FINISH(SINGLE COAT)EXT.F WOOD, FINISH(MULTI-COAT)EXT.FI	55452. 46706460.	9.
5F20 5F30	WOOD, FINISH(MULTI-COAT)EXT.FI WOOD, FINISH(MULTI-COAT)EXT.FI	14543300. 995644.	2.0.
0110	WOOD SHAKES (UNFINISH)EXT.FIN. ALUMINUM SIDING EXTERIOR FIN.	6607. 35732070.	98.
30	ALUMINUM SIDING EXTERIOR FIN. ALUMINUM SIDING EXTERIOR FIN.	15286440. 1574377.	.23
0275	ALUMINUM SIDING (ANODZD) FIN. ALUMINUM SIDING (ANODZD) FIN.	8895258. 10991580.	133
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INCAMDESCENT LIGHTING FIXTURE QUARTZ LIGHTING FIXTURE FLUORESCENT LIGHTING FIXTURE HID, MERCURY VAPOR FIXTURE, 25 HID, METAL HALID FIXTURE, 250- EMERGENCY LIGHTING FIXTURE H.P. 250 WATT	ELECTRICAL SERVICE GROUND BUILDING STRUCTURE GROUND LIGHTHING PROTECTION SYS. GROU COMPUTER SYSTEM GROUND SPECIAL GROUND SYSTEM 4-PIN RECEPTACLE CAGE BELL	SULL STA STECTOR ATTON BELL ATTON PA FECTOR FECTOR SECTOR	DARD H MI SUS ARD SU ATOR,	TORY, VALUE CHARGE CARREST CHARGE CARREST CHARGE CARREST CARRE
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APPENDIX L:

PERCENTAGE OF MAINTENANCE COST BY HIGH COST COMPONENTS FOR FUNCTIONAL USE GROUPS

All Buildings - Cost by Component											
Component Description	CACES ID No.	% of Total	Bra	agg	W	ood	Devens		Ord		
			Rank	% of Total	Renk	% of Total	Rank	% of Total	Rank	% of Total	
Built-up roofing	0311100	5.04	1	5.15	6	3.23	4	3.71	1	7.57	
Shingles	0311350	4.38	3	4.15	5	3.62	1	5.79	2	5.07	
Sheetrock (unstippled) wall finish	0611300	4.10	2	4.74	2	5.22	2	5.02	24	1.03	
Hollow core (painted) interior dr	0533110	3.05	5	2.99	4	4.29			8	2.85	
Chiller - air cool recip. 5-ton	0991440	2.84	4	3.18	1	5.87					
Vinyl asbestos tile flooring	062A200	2.47	7	2.55	16	1.56	6	2.89	6	3.19	
Fluorescent lighting fixtures	1131300	1.96	10	1.80	8	2.32	10	2.00	11	1.86	
Switchgear, indoor, below 600	1117100	1.84	8	2.34	11	2.14			26	1.02	
Thermostats/ pneumatics	09E1110	1.83	9	2.23	12	2.08	15	1.17	27	1.01	
100 KBTU house furnace (gas)	0981C20	1.18			18	1.51	8	2.46	3	4.58	
Carpet, iloor	0629100	1.78					3	4.96	7	2.87	
Sheetrock (unstippled) ceiling	0631300	1.57	14	1.56	9	2.20	7	2.74	13	1 68	
Exhaust fan, 10,000 cfm	09C1130	1.51			3	4.73					
Metal roofing	0311360	1.36	16	1.37	7	2.55					
Concrete block (painted) wall finish	0612400	1.33	11	1.70	21	1.32	12	1.33			
Hot water heater, elec., 120-gal	0814H00	1.32	6	2.85							

All Buildings - Cost by Component											
Component Description	CACES ID No.	% of Total	Bra	agg	W	ood	l Devens		ns Ore		
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total	
Dishwasher	0841100	1.29	15	1.49	17	1.51					
Plaster wall finish	0611100	1.25							4	4.55	
Maple floor	0625200	1.24	13	1.57	13	1.69		:			
Receptacle and plug	1127200	1.16	21	1.06			17	1.13	14	1.60	
Ceramic tile wall finish	0612800	1.15	17	1.32	20	1.33					
Solid core (painted) interior dr.	0533210	1.15	12	1.67			14	1.27			
Hot water heater, gas/oil, 75-gal	0814E00	1.07			22	.123	11	1.98	20	1.19	
Wood unfinished ceiling	0635200		18	1.32							
Metal ceiling (painted)	0636100		19	1.11	19	1.34					
Two-pipe fan coil, 200 cfm	09A1910		20	1.06							
Chiller-air cool recip., 10-ton	0991450		22	1.04							
Linoleum flooring	062A100		23	1.03							
Incandescent lighting fixtures	1131100		24	1.01			20	1.07	21	1.17	
Vinyl sheet flooring	062A400				14	1.63					
Aluminum siding ext. finish, 1st floor	0415110				15	1.58					
100 KBTU house furnace (oil)	0981D20				10	2.20					

All Buildings - Cost by Component										
Component Description	CACES ID No.	% of Total	Bragg Wood Dev		Bragg Wood Devens	ens ens	Ord			
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Aluminum screen/storm door	0426110				23	1.12				
250 BTU boiler (gas)	0981110						5	2.90		
Wood frame windows - 2nd floor	0431320						9	2.25		
20,000 BTU boiler (dual-fired)	0981420						13	1.27		
Pipe insulation	0984140						16	1.16		
Plywood (painted) interior wall	0615100						18	1.11		
Roll rooting	0311340						19	1.11		
Formica-vinyl ext. finish, 2nd floor	0415O20						21	1.03		
Wood frame (painted) windows, 1st floor	0431300						22	1.01		
Wood, finish (multi-coat) ext., 1st floor	0415F10								9	2.03
Stucco exterior finish, 1st floor	0415C10								10	1.87
Plaster ceiling	0631100								12	1.75
Hot water heater, gas/oil, 30-gal	0814D00								15	1.45
Wood parquetry flooring	0625100								16	1.44
200 KBTU house furnace (gas)	0981C30								17	1.36

All Buildings - Cost by Component										
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Solid core (painted) sliding int. dr.	0433220								18	1.30
Wiring device, switch	1127100								19	1.22
Solid core (painted). wood ext. dr.	0423210								22	1.13
Steel sliding (painted) interior drs.	0531130								23	1.10
Sheetrock (stippled) wall finish	0611200								5	3.36
Concrete, finished interior wall	061A200								25	1.03

General Instruction Buildings Cost By Component										
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Metal roofing	0311360	12.59	7	2.97	1	21.39				
Shingles	0311350	5.70	1	8.47	6	2.83	1	8.03	1	19.07
Fluorescent lighting fixtures	1131300	4.40	2	4.93	4	4.02	3	4.08	5	7.77
200 KBTU house furnance (oil)	0981 <b>D</b> 30	3.15			2	5.44				
Steel (painted) exterior finish 1st floor	0415L10	2.35			3	4.22				
Built-up roofing	0311100	2.13	3	4.78			5	3.61		
250 BTU boiler (oil)	0981310	1.84	16	1.92	10	2.25				
Vinyl asbestos tile flooring	062A200	1.84	15	1.93	19	1.33	4	3.94		
Drinking fountain	0811H00	1.77	25	1.03	8	2.44	27	1.03		
Sheetrock (unstippled) wall finish	0611300	1.76	23	1.37	15	1.64	6	3.22		
Wood unfinished ceiling	0635200	1.71			5	3.04				
Metal ceiling (painted)	0636100	1.70			7	2.63				
Switchgear, indoor, 0-600V	1115100	1.64	18	1.80	14	1.72	15	1.50		
Thermostats/ pneumatics	09E1110	1.63	22	1.40	16	1.55	11	2.32		
Aluminum siding exterior finish, 1st floor	0415I10	1.45	17	1.83	12	1.80				
Battery, secondary dry	1283400	1.31	26	1.00	11	1.92				

		G	eneral II Cost	nstruction By Comp		ıgs				
Component Description	CACES ID No.	% of Total	1 1		g Wood Devens		Devens		rd	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Steel interior finish (painted)	0616300	1.26			9	2.27				
1 HP compressed air plumbing system	0831110	1.21	4	4.45						
Linoleum flooring	062A100	1.19	21	1.42			2	4.92		
Wood exterior porch supports	0443200		<sup>-</sup> 5	3.59						
Single-zone draw thru 1,000 CFM	09A1C50		6	3.28						
Chiller-air cool, recip, 5-ton	0991440		8	2.80						
Single-zone draw thru 2,500 CFM	09A1C60		9	2.78						
Chiller-air cool recip. 15-ton	0991460		10	2.48						
Duct heaters	1274000		11	2.31						
Wire mesh wall	0616400		12	2.27						
1 ton window A/C	0991210		13	2.16			29	1.01		
Concrete decking- porch	0441100		14	2.02						
20 ton chiller ACH recip	0991410		19	1.54			19	1.26		
Single-zone draw thru 6,500 CFM	09A1C10		20	1.43						
Chiller-air cool recip, 10-ton	0991450		24	1.11						
Aluminum siding exterior finish, 2nd floor	0415I20				13	1.74				

General In	<b>istruction</b>	Buildings
Cost 3	By Compo	onent

Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Fire alarm control panel	1221600				17	1.47				
Alumimum frame screen cover, 1st floor	0434610			·	18	1.35				
Mod. bituminous/ thermoplastic roofing	0311210				20 -	1.28				
Concrete, unfinished flooring	062B100				21	1.07				
100 KBTU house furnace (oil)	0981D20				22	1.06				
Overhead service feeder	1112000				23	1.02				
Concrete, finished flooring	062B200				24	1.00				
Induction furnace gas/oil 500 MBU	0981M10						7	3.15		
Switchgear, indoor, below 600V	1117100						8	2.62		
Concrete block (painted) wall	0612400						9	2.57		
2,000 BTU Boiler (oil)	0981320						10	2.48		
Sheetrock (unstippled ceiling	0631300						12	1.82		
Solid core (painted) interior door	0533210						13	1.61		
Hollow core (painted) interior door	0533110						14	1.50		

# General Instruction Buildings Cost By Component

Cost by Component												
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens	0	rd		
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total		
Wood trimming	0561100		_				16	1.48				
Formica-vinyl exterior finish, 2nd floor	0415O20						17	1.34				
10,000 CFM variable volume	09A1520						18	1.26				
Hot water heater, gas/oil, 75-gal	0814E00						<sup>-</sup> 20	1.23				
400 CFM unit heater	09A1D10						21	1.21				
Safety switch, fused 1 P	1122410						22	1.19				
Safety switch, enclosed	1122100				_		23	1.14				
Concrete block (WP/P) exterior finish, 1st floor	0415910						24	1.10				
Wood frame (painted), operable window, 1st floor	0431310						25	1.09	6	5.14		
Solid core (painted) wood exterior door	0423210						26	1.07				
Motor starter, 0-600V	1123600						28	1.02				
Wood finish (multi-coat) exterior finish, 1st floor	0415F10								2	17.08		
Wood finished ceiling	0635100								3	13.36		
200 KBTU House furnace (gas)	0981C30								4	10.23		

	General Instruction Buildings Cost By Component													
Component Description	CACES ID No.	% of Total	Bra	agg	Wood		Devens		Ord					
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total				
Masonite interior wall finish	0612900								7	5.01				
Plywood (painted/stained) interior wall	0615100								8	4.37				

<b>Applied</b>	Instruction	Buildings
Cos	st by Compo	onent

Cost by Component												
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	Devens		rd		
			Rank	% of Total								
Metal roofing	0311360	6.98			1	16.28						
Built-up roofing	0311100	6.05	1	14.79	3	4.59	5	3.84				
Metal ceiling (painted)	0636100	4.70	23	1.12	2	7.95	23	1.10				
Fluorescent lighting fixture	1131300	4.59	4	4.89	5	3.85	2	5.31				
Carpet, floor	0629100	3.30	3	6.08			1	6.83				
Shingles	0311350	2.42	5	3.36			3	4.34				
Vinyl asbestos tile flooring	062A200	2.39	7	2.75	13	1.24	4	3.86				
H.P. 250 watt sodium fixture	1131610	2.06			4	3.90						
50-ton chiller ACH recip.	0991420	2.01	2	8.38			17	1.64				
Steel interior wall (painted)	0616300	1.99			6	3.82						
Pipe insulation	0984140	1.86			8	2.50	15	1.73				
Switchgear, indoor, below 600V	1117100	1.82	12	2.06	19	1.02	8	2.85				
Motor-starter, 0-600V	1123600	1.63			7	2.65						
Sheetrock (unstippled) wall	0611300	1.58	6	3.12			13	2.01				
Thermostats/ pneumatics	09E1100	1.52			12	1.50	16	1.66				
Concrete block (painted) wall	0612400	1.46	25	1.05	10	1.95						
Drinking fountain	0811H00	1.12	22	1.15	15	1.17						

# Applied Instruction Buildings Cost by Component

	CA OFF	<i>a</i> 6		by comp						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	Ord	
			Rank	% of Total						
1-ton window A/C	0991210	1.09					6	3.13		
Battery, secondary dry	1283400	1.06					7	2.88		
Solid core (painted) interior door	0533210	1.05	20	1.32			14	1.83		
Exhaust fan, 25,000 CFM	09C1140	1.04	-		9	1.99				
Single-zone draw thru, 10,000 CFM	09A1C20		8	2.68						
Hollow-core (painted) interior door	0533110		9	2.42			18	1.26		
Heat pump 25 tons	09A1E30		10	2.39						
Chiller-air cooler recip. 10-ton	0991450	_	11	2.39						
Heat pump, 1 ton	09A1E40		13	2.00				<u> </u>		
Ceramic tile wall	0612800		14	1.96				<u> </u>		
10,000 BTU boiler (gas)	0981130		15	1.75						
Wood, finished (multi-coat) exterior, 1st floor	0415F10		16	1.53						
Single-zone draw thru 6,500 CFM	09A1C10		17	1.52						
Hot water heater, electric, 120-gal	0814H00		18	1.51						
Acoustical interior wall tile	0619200		19	1.41						
Linoleum flooring	062A100		21	1.29						

#### **Applied Instruction Buildings** Cost by Component Component **CACES** % of Description ID No. **Total Bragg** Wood Devens Ord % of % of % of % of **Total Total** Rank **Total** Rank **Total** Rank Rank 24 1.12 Thermostats/ 09E1110 pneumatics 0981A10 1.07 26 1.03 16 Deaeretor Exhaust fan 09C1130 11 1.56 10,000 CFM 062B200 14 1.18 Concrete, finished flooring 2,000 BTU boiler 17 1.04 22 1.12 0981410 (dual-fired) 1.02 Aluminum louver 0433210 18 in frame, 1st floor 0311340 9 2.34 Roll roofing Rubber tile 062A300 10 2.14 flooring 2,000 BTU boiler 0981320 11 2.13 (oil) 12 2.01 Wood frame 0431330 (paint) operable window, 3rd floor 19 1.25 Receptacle and 1127200 plug Wood frame 0431320 20 1.23 (paint) operable window, 2nd floor 21 1.13 Aluminum frame 0434630 screen cover, 3rd floor

24

1.05

20-ton chiller

ACH recip

0991410

#### **Aviation Unit Maintenance Hangars** Cost by Component Component CACES % of Description ID No. Total Ord Bragg Wood Devens % of % of % of % of Rank Total Rank Total Rank Total Rank Total Steel interior finish 0616300 19.25 1 21.71 (painted) Built-up roofing 0311100 16.02 2 17.66 7 4.25 Metal ceiling 0636100 9.29 3 9.76 3 7.47 (painted) Concrete block 0612400 3.71 4 3.82 9 3.57 (painted) wall finish 0311360 Metal roofing 3.14 13 1.17 1 27.19 15.62 1 1131300 2.25 5 7 5 Fluorescent 1.98 3.31 4.71 lighting fixture 2000 BTU boiler 0981320 8 2.03 1.50 2 8.23 (oil) 0415L30 1.64 6 1.85 Steel (painted) exterior finish, 3+ floor 062B200 7 Concrete, finished 1.55 1.56 9 2,77 21 1.09 flooring Switchgear, indoor 1117100 1.42 10 1.36 15 1.28 13 2.02 below 600V 9 Exhaust fan. 09C1130 1.24 1.40 10,000 CFM Thermostats/ 09E1110 1.18 11 1.22 pneumatics HID, mercury 1131410 1.16 16 1.11 3 6.20 vapor fixture 250w Concrete. 062B100 1.11 14 1.16 unfinished flooring

1.19

Motor starter.

0-600V

1123600

1.07

12

		Avia	tion Unit Cost	Mainter		ngars				
Component Description	CACES ID No.	% of Total	Bra	agg	We	ood	Dev	Devens		rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
HP sodium fixture, 250w	1131610	1.05					4	5.03		
Open head sprinkler head	0844110	1.02	15	1.12	16	1.28				
Battery, secondary dry	1283400		17	1.01						
Finned radiator, wall 10 ft	0943300 _		18	1.01						
Infrared suspended, commercial heater	1272300				2	13.39				
Transformer, liquid filled above 600V	1114100				4	4.89			,	
Steel (painted) exterior finish, 2nd floor	0415L20				5	3.69				
Steel (painted) exterior finish, 1st floor	0415L10				6	3.35				
Chiller-air cool recip. 5-ton	0991440				8	3.21				
1 HP compressed air plumbing system	0831110				10	2.37				
Concrete decking- porch	0441100				11	1.89				
Plastic ceiling	0634200				12	1.69				
Acoustical interior wall tile	0619200				13	1.65				
Vinyl asbestos tile flooring	062A200		- · · · · · ·		14	1.44	12	2.34		

### Aviation Unit Maintenance Hangars Cost by Component CACES % of Component Total Wood **Devens** Ord Description ID No. **Bragg** % of % of % of % of Rank Total Rank **Total** Rank Total Rank **Total** 1.25 Time control clock 1261100 17 18 1.23 Hollow core 0533110 (painted) interior door Wainscot interior 0615900 19 1.23 wall 0814G00 20 Hotwater heater. 1.16 gas/oil, 8-120 GPH recovery Single-zone draw 09A1C10 6 4.55 thru, 6,500 CFM 8 Radiator, finned 0981H00 3.97 wall, 10' section Pipe insulation 0984140 10 2.88 11 2.83 Steel frame 0431220 (painted) operable window, 2nd floor Safety switch, 1122430 14 1.82 fused 3P Aluminum frame 0434120 15 1.77 storm windows, 2..d floor 0611100 16 1.70 Plaster wall finish 17 1.34 Concrete block 0415920 (WP/P) exterior finish, 2nd floor 0629100 1.29 18 Carpet, floor 19

1.24

Steel painted

interior door

0531110

	Organizatio	onal Vehi	cle Main	tenance	Facilities	Cost by	Compor	ent		
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	юd	Dev	ens/	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Built-up roofing	0311100	10.62	1	10.81	1	13.74	1	8.89	2	9.35
Metal ceiling (painted)	0636100	5.22	2	6.96	14	1.87	4	5.29	9	2.03
Metal roofing	0311360	4.27	3	5.14	5	3.65	19	1.55	4	3.92
Fluorescent lighting fixture	1131300	3.42	5	2.85	3	4.58	7	3.37	3	4.44
Shingles	0311350	3.21	6	2.77	6	3.49	3	6.23	8	2.27
Generator, gas turbine	1281420	3.11							1	16.39
Deaerator	0981A10	2.93	4	3.77	24	1.16			5	3.49
2,000 BTU boiler (oil)	0981320	2.28	12	1.87	25	1.07	2	8.44		
Wire mesh wall	0616400	2.08	10	2.03	2	4.70	26	1.06	18	1.37
Concrete block (painted) wall finish	0612400	1.96	7	2.23			12	2.02	12	1.87
Thermostats/ pneumatics	09E1110	1.84	8	2.17	8	3.07	21	1.46		
Steel single roll-up door	0427100	1.69	21	1.19	7	3.09	20	1.55	7	2.41
HP 250W sodium fixture	1131610	1.64	9	2.15			14	1.76		
Concrete block (WP/P) exterior finish, 1st floor	0415910	1.54	15	1.42			8	3.19		
Pipe insulation	0984140	1.42	13	1.73			10	2.36		
Motor starter, 0-600V	1123600	1.36			11	2.32	16	1.75	11	1.91
Gas compressor > 1/2 HP	0831130	1.34	16	1.39	10	2.46	24	1.17		

	Organizatio	nal Vehi	cle Main	tenance	Facilities	Cost by	Compor	nent		· · · · · · · · · · · · · · · · · · ·
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens_	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Concrete, unfinished flooring	062B100	1.32	27	1.02	18	1.61	13	1.79	13	1.71
Wood unfinished ceiling	0635200	1.28					6	4.01	15	1.61
Concrete, finished flooring	062B200	1.20	14	1.55			18	1.56		
Steel interior finish (painted)	0616300	1.14	11	1.99						
250 BTU boiler (oil)	0981310	1.12			4	4.08			6	2.63
Sheetrock (unstippled) wall finish	0611300	1.11	19	1.25			15	1.75		
Wood, (multi-coat) exterior finish, 2nd floor	0415F20		17	1.33						
Exhaust fan 10,000 CFM	09C1130		18	1.31						
Unit heater 4,000 CFM	09A1D30		20	1.21						
HID metal halide fixture, 250W	1131420		22	1.17						
Switchgear, indoor below 600V	1117100		23	1.10					20	1.28
Drinking fountain	0811H00		24	1.06						
Hot water heater, electric, 120-gal	0814H00		25	1.02			22	1.29		
Contactors and relays	1124000		26	1.02						

	Organizatio	nai veni	cie Main	tenance	racinties	Cust by	Compor	iciit		
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Distribution, gutters, pipe	0822100				12	2.08				
Unit heater 1,200 CFM	09A1D20				13	1.96	11	2.19		
Switchgear, indoor 0-600V	1115100				15	1.82	23	1.28		
Concrete block (WP/P) exterior finish, 2nd floor	0415920				16	1.77				
Exhaust fan 1,000 CFM	09C1120				17	1.74				
Unit heater 400 CFM	09A1D10				19	1.52				
Concrete block (WP/P) exterior finish, 1st floor	0415910				20	1.49				
Solid core (painted) interior door	0533210				21	1.39				
Floor drain, without bucket	0812200				22	1.23				
Sheetrock (unstippled) ceiling	0631300				23	1.18				
Metal pipe for compressed air	0831310				26	1.07				
Timber (unfinished) interior wall	0615400				27	1.03				
Induction furnace gas/oil 2,000 MBU	0981M20						5	4.41		
Roll roofing	0311340						9	2.41		

Component	CACES	% of	İ							
Description	ID No.	Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Safety switch, enclosed	1122100						17	1.62		
Metal window gratings, 1st floor	0434410						25	1.13		
Feedwater supply	0981910								10	1.91
1 HP compressed air plumbing system	0831110								14	1.69
Gas-fired radiant heater 50 MBU	09A1D50								16	1.49
Steel frame (painted) operable window, 1st floor	0431210								17	1.47
2,000 BTU boiler (gas)	0981120								19	1.31
Simplex air compressor, 1 HP	09E1310								21	1.16
Stucco exterior finish, 1st floor	0415C10								22	1.15
Concrete exterior finish, 1st floor	0415A10								23	1.11
Concrete, finished interior wall	061A200								24	1.02

DS/GS Vehicle	Maintenance Shop
Cost by	Component

Component	CACES	% of		by comp						
Component Description	ID No.	Total	Bra	agg	Wo	od	Dev	ens	Ord	
			Rank	% of Total						
40,000 BTU boiler (coal)	0981210	18.26	1	18.31					·	
Metal roofing	0311360	12.64	2	12.68						
HP 250W sodium fixture	1131610	10.75	3	10.78						
Built-up roofing	0311100	5.08	4	5.09						
Fluorescent lighting fixture	1131300	3.12	5	3.12			14	2.94		
Metal ceiling (painted)	0636100	2.57	6	2.58						
10,000 BTU boiler (oil)	0981330	2.19	7	2.20					_	
250 BTU boiler (oil)	0981310	2.11	8	2.11						
Thermostats/ pneumatics	09E1110	1.90	9	1.88			8	5.90		
Steel interior finish (painted)	0616300	1.78	10	1.78						
Wood unfinished ceiling	0635200	1.65	11	1.66						
Shingles	0311350	1.64	12	1.60			1	13.33		
Exaust fan, 10,000 CFM	09C1130	1.43	13	1.44						
Concrete, unfinished flooring	062B100	1.38	14	1.39						
1,200 CFM unit heater	09A1D20	1.38	15	1.38						
Concrete block (painted) wall finish	0612400	1.31	16	1.29			7	5.92		

		DS/	GS Vehi Cost	cle Main by Com <sub>l</sub>		Shop				
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood, single roll- up doors	0427500	1.13	17	1.13						
Safety switch, enclosed	1122100	1.02	18	1.02						
Concrete block (WP/P) exterior finish, 1st floor	0415910						2	8.96		
400 CFM unit heater	09A1D10						3	8.52		
Vinyl asbestos tile flooring	062A200						4	8.16		
Metal window gratings, 1st floor	0434410						5	7.06		
2-ton window A/C	0991220						6	5.95		
Wood frame screen window cover, 1st floor	0434810						9	4.92		
Wood frame (paint) operable window, 1st floor	0431310						10	4.62		
Switchgear, indoor 0-600V	1115100						11	4.33		
Sheetrock (unstippled) ceiling	0631300						12	4.28		
Solid core (painted) wood exterior door	0423210						13	3.20		

# Special Purpose Maintenance Shops Cost By Component

Component Description	CACES % of ID No. Total		Bra	Bragg		Wood		vens	Ord	
-			Rank	% of Total						
Roll roofing	0311340	12.81			1	18.45				
Steel interior wall (painted)	0616300	8.30	16	1.95	4	5.93			1	49.68
Metal roofing	0311360	7.11	14	2.16	2	7.70			2	17.12
Metal ceiling (painted)	0636100	4.97	13	2.23	3	6.41				
HP 250W sodium fixture	1131610	3.19			5	4.50				
Fluorescent lighting fixture	1131300	3.18	6	4.92	9	2.39			3	5.56
Battery, secondary dry	1283400	3.05			6	4.39				
Shingles	0311350	2.95	1	8.97			1	22.65	10	1.44
Motor starter, 0-600V	1123600	2.46			7	3.21			5	1.92
Concrete, finished flooring	062B200	2.10	25	1.01	8	2.66				
Pipe insulation	0984140	1.74	20	1.55	10	2.01				
250 BTU boiler (oil)	0981310	1.62	2	7.40						
Switchgear, indoor below 600V	1117100	1.61	15	2.02	16	1.54				
Thermostats/ pneumatics	09E1110	1.56	12	2.46	19	1.43				
Safety switch, enclosed	1122100	1.53			12	1.90				
Built-up roofing	0311100	1.51	3	6.92						
1,200 CFM unit heater	09A1D20	1.49	23	1.23	17	1.54			4	2.07
Feetwater supply	0981910	1.49	4	6.82						

		Spec	ial Purp Cost	ose Main By Com	tenance :	Shops						
Component Description	CACES ID No.	% of Total	Br	agg	Wo	ood	Dev	ens	o	rd		
					Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Concrete block (painted) wall	0612400	1.48			11	1.98						
Aluminum siding exterior finish, 1st floor	0415110	1.29	24	1.16	18	1.49						
Steel (painted) exterior finish, 3rd+ floor	0415L30	1.15			13	1.66						
Wood unfinished ceiling	0635200	1.15			14	1.58						
6,500 CFM single- zone draw thru	09A1C10	1.14	11	2.66								
10,000 BTU boiler (oil)	0981330	1.08			15	1.56						
Water softener	0841300	1.08	5	4.96								
Chiller-air cool recip 10-ton	0991450		7	4.26								
1 HP Compressed air plumbing system	0831110		8	2.97								
Chiller-air cool recip 5-ton	0991440		9	2.84								
Sheetrock (unstippled) ceiling	0631300		10	2.84			6	7.76				
Wood finished ceiling	0635100		17	1.91					11	1.27		
Single-zone draw thru 1,000 CFM	09A1C50		18	1.81								
Concrete, unfinished flooring	062B100		19	1.72					9	1.55		
Wire mesh wall	0616400		21	1.35								

## Special Purpose Maintenance Shops Cost By Component

			Cost	By Com	ponent					
Component Description	CACES ID No.	% of Total	· -		Wo	ood	Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Sheetrock (unstippled) wall	0611300		22	1.31			5	8.01		
10,000 CFM single-zone draw thru	09A1C20				20	1.39				
Open head sprinkler head	0844110				21	1.13				
Aluminum siding exterior finish, 2nd floor	0415120			•	22	1.11				
Maple floor	0625200			_			2	12.12		
200 KBTU house furnance (oil)	0981D30						3	10.15	i	
Aluminum frame screen cover, 3rd floor	0434630						4	8.72		
Aluminum frame storm windows, 1st floor	0434110						7	5.24		
Wood frame (paint) operable window, 1st floor	0431310						8	3.90		
Formica-vinyl exterior finish, 1st floor	0415O10						9	3.28		
Solid core (safety glass) painted exterior door	0423230						10	2.78		
Drinking fountain	0811H00								6	1.77
Wood, finished (multi-coat) exterior, 1st floor	0415F10								7	1.77

Special Purpose Maintenance Shops Cost By Component											
Component Description	CACES ID No.	% of Total									
			Rank	% of Total							
Gas compressor > 15 HP	0831140								8	1.69	

Maintenance - Installation	O&R
Cost by Component	

Component Description	CACES % of ID No. Total		Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
40,000 BTU boiler (coal)	0981210	17.53			1	35.37				
Metal roofing	0311360	5.54	7	3.12	2	8.61	24	1.14	<u> </u>	
Built-up roofing	0311100	4.55	1	8.51	3	3.15				
Fluorescent lighting fixture	1131300	3.92	2	5.65	5	2.56	4	4.38		
Shingles	0311350	3.90	4	4.03	7	2.14	1	9.28		
Metal ceiling (painted)	0636100	2.90	5	3.93	4	2.92				
Steel interior finish (painted)	0616300	2.63	8	3.06	6	2.26	7	2.84		
Sheetrock (unstippled) wall finish	0611300	2.03	21	1.56	10	1.46	3	4.98		
100 tons chiller ACH recip	0991430	1.80	3	5.12						
Thermostats/ pneumatics	09E1110	1.47	19	1.66	13	1.24	16	1.78		
Drinking fountain	0811H00	1.44	17	1.78	16	1.14	18	1.67		
2-ton window A/C	0991220	1.40	9	2.76						
Solid core (painted) interior door	0533210	1.36	13	2.23			14	1.86		
Roll roofing	0311340	1.30					2	8.52		
Exhaust fan, 10,000 CFM	09C1130	1.20	6	3.13						
200 KBTU house furnace (oil)	0981D30	1.18			11	1.43	11	2.32		
Motor starter, 0-600V	1123600	1.16			8	1.95	_			

# Maintenance - Installation O&R Cost by Component

Component	CACES	% of		oy comp						
Description	ID No.	Total	Bra	agg	Wo	od	Dev	ens	Ord	
			Rank	% of Total						
Safety switch, enclosed	1122100	1.15					8	2.72		
Sheetrock (unstippled) ceiling	0631300	1.15					5	4.00		
1 HP compressed air plumbing system	0831110	1.14			9	1.78	17	1.69		
Switchgear, indoor below 600V	1117100	1.06	14	2,22					•	
Transformer, dry below 15,000V	1116200		10	2.66						
6,500 CFM single- zone draw through	09A1C10		11	2.51						
Concrete block (painted) wall finish	0612400		12	2.34						
Concrete block (WP/P) exterior finish, 1st floor	0415910		14	2.12						
Pipe insulation	0984140		15	1.91						
2,000 BTU boiler (dual-fired)	0981410		16	1.88						
Carpet, floor	0629100		18	1.77			21	1.41		
1,200 CFM unit heater	09A1D20		20	1.62						
Linoleum flooring	062A100		22	1.24						
Aluminum siding, exterior finish, 1st floor	0415110		23	1.07	14	1.23				
25,000 CFM single-zone draw through	09A1C30		24	1.03						

#### Maintenance - Installation O&R Cost by Component **CACES** % of Component Wood Description ID No. Total Bragg **Devens** Ord % of % of % of % of Total **Total** Total Rank Total Rank Rank Rank 0981320 12 1.32 2.000 BTU boiler (oil) 1.15 0991420 15 50 tons chillers ACH recip 17 1.02 062A200 Vinyl asbestos tile flooring 6 3.06 Baseboard radiator, 0943200 10 ft 9 Wire mesh wall 0616400 2.58 250 BTU boiler 10 2.47 0981110 (gas) Wood frame 0431310 12 2.30 (paint) oper. window, 1st floor 2.21 Concrete, finished 062B200 13 flooring 0415010 15 1.79 Formica-vinyl exterior finish, 1st floor 19 0814E00 1.43 Hot water heater, gas/oil, 75-gal 20 1.42 100 KBTU house 0981D20 furnace (oil) 22 1.19 Wood trimming 0561100 23 1.18 Gas compressor > 0831130 1/2 HP 25 Hot water heater, 0814H00 1.13 electric, 120-gal 1115100 26 1.05 Switchgear, indoor, 0-600V

		A	mmuniti Cost	on Stora by Comp		ies					
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	vens	0	rd	
				Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Metal roofing	0311360	24.29	1	37.20							
Metal ceiling (painted)	0636100	19.23	2	13.88	1	40.84	3	21.17			
Lighting protection sys grounding rod	1143510	9.41	3	12.16			4	7.22			
Built-up roofing	0311100	5.78	4	7.31	4	7.03					
Steel interior finish (painted)	0616300	5.27					1	25.89			
Concrete, sealed panel roofing	0311410	4.77					2	23.41			
Concrete exterior finish, 1st floor	0415A10	4.52	5	4.48	2	8.82					
Concrete, unfinished flooring	062B100	4.43	6	4.47	5	5.14					
Concrete exterior finish, 2nd floor	0415A20	2.29	8	1.88	3	7.40					
Steel (painted) metal exterior door	0421210	2.01	7	2.44							
Concrete, unfinished interior wall	061A100	1.50			8	3.09					
Incandescent lighting fixture	1131100	1.30									
Steel single roll-up door	0427100				6	3.96					
Concrete block (WP/P) exterior finish, 2nd floor	0415920				7	3.42					
Concrete block (WP/P) exterior finish, 1st floor	0415910				9	2.66					

Ammunition Storage Facilities  Cost by Component												
Component Description	CACES ID No.	1 1		Bragg		Wood		ens/	Ord			
			Rank	% of Total								
Switchgear, indoor, 0-600V	1115100				10	2.43						
Steel (painted) exterior finish, 1st floor	0415L10						5	5.98				

Cold Storage Facilities - Cost by Component												
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens .	0	rd		
			Rank	% of Total								
50,000 CFM two- pipe induction	09A1740	22.03			1	43.25						
Built-up roofing	0311100	10.39	1	17.88	4	5.18	1	14.83				
300 tons evaporative cond.	0991 <b>D</b> 30	7.14			2	14.02						
Transformer, liquid filled, above 600V	1114100	4.41			3	7.48				12.48		
20-ton chiller WCH recip.	0991510	4.25	2	13.51								
Single-zone draw through 2,500 CFM	09A1C60	2.80	3	8.88								
Motor starter, 0-600V	1123600	2.54	6	4.78			5	4.98				
Metal ceiling (painted)	0636100	2.53	4	6.21			6	4.05				
LP 200W sodium fixture	1131620	2.52			5	4.94						
Concrete, finished interior wall	061A200	2.42			6	2.25	2	8.91				
2,000 BTU boiler (oil)	0981320	2.02	7	3.13			3	7.25				
Single-zone draw through, 1,000 CFM	09A1C50	1.81	5	5.74								
Safety switch, enclosed	1122100	1.50	10	1.90			7	3.38				
Thermostats/ pneumatics	09E1110	1.49	17	1.35	10	1.47	13	2.04				
Concrete exterior finish, 1st floor	0415A10	1.47	11	1.71			10	2.42				

		Cold Sto	rage Faci	ilities - C	ost by C	ompone	nt			
Component Description	CACES ID No.	% of Total	Bra	agg_	Wo	ood	Dev	ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Concrete, finished flooring	062B200	1.45	8	2.41					9	2.97
Shingles	0311350	1.16					4	6.57	6	6.58
Concrete decking porch	0441100	1.08	15	1.49			11	2.25		
Switchgear, indoor below 600V	1117100	1.04	18	1.33			17	1.70		
Switchgear, indoor, 0-600V	1115100	1.01			11	1.42				
Rubber tile flooring	062A300		9	2.19						
50-ton cooling tower	0991C10		12	1.69	_					
20-ton chiller ACH recip.	0991410		13	1.67						
Contactors and relays	1124000		14	1.62						
Concrete block (painted) wall finish	0612400		16	1.36						
Aluminum interior wall	0616100		19	1.29						
1 HP compressed air plumbing system	0831110		20	1.23						
Vinyl asbestos tile flooring	062A200		21	1.15					3	9.20
Floor drain, without bucket	0812200		22	1.03						
2,000 BTU boiler (gas)	0981120				7	1.96				

		Cold Stor	rage Faci	lities - C	ost by C	omponer	nt			
Component Description	CACES ID No.	% of Total	Bra	Bragg		od	Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
50-ton chiller ACH recip	0991420				8	1.75				<u> </u>
Wainscot interior wall	0615900				9	1.66				
Metal walk-in interior cooler dr.	0534320						8	2.92		
Concrete, unfinished flooring	062B100						9	2.91		
Refrigeration fan coil, 5-ton	0991F30						12	2.24		
Stucco interior wall finish	0611400						14	2.02		
Stucco interior ceiling finish	0631400						15	1.98		
Steam trap, F&T < 1"	0984370						16	1.87		
Sheetrock (unstippled) wall finish	0611300						18	1.67		
Wood finished ceiling	0635100						19	1.52		
Incandescent lighting fixture	1131100						20	1.51		
Simplex air compressor, 1 HP	09E1310						21	1.42		
Concrete, finished ceiling	063A200						22	1.38		
Refrigeration fan coil, 3-ton	0991F20						23	1.16		
Fluorescent lighting fixture	1131300						24	1.12	16	1.56

Cold Storage Facilities - Cost by Component												
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens/	O	rd		
			Rank	% of Total								
Sink, enameled steel	0811E00	:					25	1.11	21	1.13		
Carpet, floor	0629100						26	1.03				
Lead-lined interior wall	0616500								2	11.74		
Sheetrock (stippled) wall finish	0611200								4	8.92		
Sheetrock (stippled) ceiling	0631200								5	6.92		
200 KBTU house furnace (gas)	0981C30								7	5.40		
Dbl. pane wood frm. oper. window, 1st floor	0431810								8	3.32		
Panel (solid) interior wall	0615500								10	2.85		
Expansion chamber, cold water	0813700								11	2.84		
Wood, finished (multi-coat) exterior, 1st floor	0415F10								12	2.83		
Pipe and fittings, HW steel or cast iron	0814100						-		13	1.76		
Pipe and fittings, CW steel or cast iron	0813100								14	1.76		
Expansion chamber, hot water	0814700								15	1.66		
Pipe and fittings, waste and vent	0812100				!				17	1.55		

Cold Storage Facilities - Cost by Component												
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens ens	Ord			
			Rank	% of Total								
Hot water heater, gas/oil, 30-gal	0814D00								18	1.54		
Solid core (painted) wood exterior door	0423210								19	1.50		
Distribution, gutters, pipe	0822100								20	1.30		
Solid core (painted) wood interior door	0533210								22	1.12		

		(		Purpose \ by Comp	Warehou ponent	se				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Metal roofing	0311360	14.10	1	14.48	1	24.01	4	4.08	4	4.10
Shingles	0311350	9.34	2	10.83	3	4.18	2	11.72	1	12.60
Metal ceiling (painted)	0636100	5.80	3	8.76	18	1.01	3	7.99	15	1.61
Wood unfinished ceiling	0635200	3.60	5	2.87	2	4.72	5	3.63	5	3.81
Built-up roofing	0311100	3.41	4	3.99			1	12.14		
Fluorescent lighting fixture	1131300	2.56	6	2.32	5	2.86	9	2.05	7	3.02
Sheetrock (unstippled) wall	0611300	1.62			7	2.14	10	2.01	8	2.62
Roll roofing	0311340	1.59							2	10.36
Wood, finished (multi-coat) exterior, 1st floor	0415F10	1.52	10	1.43					3	5.87
Vinyl asbestos tile flooring	062A200	1.37			6	2.31			22	1.17
Thermostats/ pneumatics	09E1110	1.28	8	1.53	19	1.01	14	1.37		
Aluminum siding exterior finish, 1st floor	0415I10	1.25			4	3.23				
Switchgear, indoor below 600V	1117100	1.11	12	1.28					12	1.83
Maple floor	0625200	1.11	7	1.90						
Wood finished ceiling	0635100	1.09	14	1.02			15	1.36	6	3.26
Sheetrock (unstippled) ceiling	0631300	1.07			15	1.09	17	1.24	16	1.52
2,000 BTU boiler (gas)	0981120		9	1.49						

## General Purpose Warehouse Cost by Component

Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	vens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood parquetry flooring	0625100		11	1.33			11	1.76		
1,200 CFM unit heater	09A1D20		13	1.26			12	1.44		
Aluminum siding exterior finish, 2nd floor	0415I20				8	2.09				
25,000 CFM single-zone draw through	09A1C30				9	1.77				
100 KBTU house furnace (oil)	0981D20				10	1.57				
Exhaust fan, 10,000 CFM	09C1130				11	1.43				
2,000 BTU boiler (oil)	0981320				12	1.28	8	2.30		
200 KBTU house furnace (oil)	0981 <b>D</b> 30				13	1.19				
250 BTU boiler (oil)	0981310				14	1.13				
Battery, secondary dry	1283400		- 1.11		16	1.08				
20-ton chillers ACH recip	0991410				17	1.08				
Concrete, finished flooring	062B200						6	2.66		
Vinyl sheet flooring	062A400						7	2.34		
10,000 BTU boiler (gas)	0981130						13	1.38		
Concrete block (painted) wall	0612400						16	1.28		

#### General Purpose Warehouse Cost by Component **CACES** % of Component Description ID No. **Total** Bragg Wood Devens · Ord % of % of % of % of Rank Total Rank Total Rank Total Rank **Total** 0984370 18 1.20 Steam trap, F&T < Concrete, 062B100 19 1.15 14 1.66 unfinished flooring 20 1.14 Formica-vinyl 0415010 exterior finish, 1st floor 0814H00 21 1.09 Hot water heater, electric, 120-gal 22 1.08 LP 200W sodium 1131620 fixture 1.07 1131100 23 Incandescent lighting fixture 24 1.01 Open head U84411Û sprinkler head 9 2.57 Steel (painted) 0415L10 exterior finish, 1st floor 2.40 100 KBTU house 0981C20 10 furnace (gas) 1.96 0427500 11 Wood single rollup door 0619400 13 1.68 Asbestosacoustical, firerated tile Pipe and fittings, 0813100 17 1.47 CW steel or cast iron 0431310 Wood frame 18 1.46 (painted) operable window, 1st floor 0629100 19 1.44 Carpet, floor

	General Purpose Warehouse Cost by Component												
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	юd	Devens		Ord				
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total			
Metal window gratings, 1st floor	0434410								20	1.32			
Hot water heater, gas/oil, 30-gal	0814 <b>D</b> 00								21	1.17			
Gas compressor > 1/2 HP	0831130								23	1.09			
200 KBTU house furnace (gas)	0981C30								24	1.07			
Solid core (painted) wood exterior door	0423210								25	1.01			
Board (finished) interior wall	0615700								26	1.01			

		Н	ospital -	Cost by	Compone	ent					
Component Description	CACES ID No.	% or Total	Bra	agg	Wo	bod	Dev	ens/	O	rd	
				Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Ash handling system	0981610	7.17					l	16.29			
Vinyl asbestos tile flooring	062A200	5.49	2	7.02	3	7.47	7	3.53			
Fluorescent lighting fixture	1131300	5.14	1	7.72	7	3.25	14	2.15			
Solid core (painted) interior door	0533210	5.03	3	6.28			6	3.82			
Ceramic tile wall finish	0612800	3.64	4	5.88			18	1.17			
Carpet, floor	0629100	3.23	6	5.28							
Plaster wall finish	0611100	2.99	7	5.28							
Roll roofing	0311340	2.91	5	5.48		_					
Duct coil 1-row HW 12 x 24	09A1G10	2.76					2	6.27			
Steam trap, F&T < 1"	0984370	2.72	11	1.94			5	3.83			
Switchgear, indoor below 600V	1117100	2.62	8	3.76			16	1.40			
Sheetrock (unstippled) wall finish	0611300	2.30	12	1.86	5	4.40	13	2.71			
Thermostats/ pneumatics	09E1110	2.22	13	1.82			12	2.79			
Built-up roofing	0311100	2.20					3	4.68			
200 CFM 2-pipe fan coil	09A1910	1.79					4	3.93			
20,000 BTU boiler (dual-fire)	0981420	1.51					8	3.43			

		Н	ospital -	Cost by	Compon	ent				
Component Description	CACES ID No.	% of Total	Br	agg	Wo	ood	Dev	vens	О	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wallpaper interior wall finish	0614500	1.46					9	3.32		
Concrete exterior finish, 3rd+ floor	0415A30	1.32	9	2.33						
Generator, diesel	1281200	1.26					10	2.86		
Generator, vapor gas powered	1281300	1.26					11	2.86		
Acoustical tile (dropped) ceiling	0632200	1.21	14	1.61						
Cement asbestos roofing	0311320	1.12	10	2.10						
25,000 CFM single-zone draw through	09A1C30	1.04	15	1.47						
Receptacle and plug	1127200	1.01	17	1.36	25	1.36				
Aluminum operable window, 3rd+ floor	0431130		16	1.43						
Exhaust fan, 50,000 CFM	09C1150		18	1.35						
Concrete, finished interior wall	061A200		19	1.34						
6,500 CFM single-zone draw through	09A1C10		20	1.14	15	2.19				
Lavatory, enameled steel	0811600		21	1.08						
Tankless water closet	0811100		22	1.07						
Quarry tile flooring	0622200		23	1.05						

		Н	ospital -	Cost by	Compone	ent				
Component Description	CACES ID No.	% of Total	Bra	agg_	Wo	ood	Dev	ens	O	rđ
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Shingles	0311350				1	7.85				
Aluminum siding exterior finish, 2nd floor	0415I20				2	7.60				
Aluminum siding exterior finish, 1st floor	0415I10				4	6.05			,	
Chiller - air cool recip, 10-ton	0991450				6	3.56				
200 KBTU house furnace (gas)	0981C30				8	3.05				
Hot water heater, gas/oil, 75-gal	0814E00				9	3.00				
Drinking fountain	0811H00				10	2.93				
Sheetrock (unstippled) ceiling	0631300				11	2.90	_			
Motor starter, 0-600V	1123600			_	12	2.86			_	
Exhaust fan, 10,000 CFM	09C1130				13	2.57				
Switchgear, indoor, 0-600V	1115100				14	2.46				
Steel interior finish (painted)	0616300				16	2.16				
Wood finished ceiling	0635100				17	1.88				
1 HP compressed air plumbing system	0831110				18	1.74				
Safety switch, enclosed	1122100				19	1.71				

		Н	ospital -	Cost by	Compone	ent				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Lavatory, iron, enamei	0811400				20	1.69				
200 KBTU house furnace (oil)	0981D30				21	1.62				
Aluminum louvers (in frame), 1st floor	0433210				22	1.61				
100 KBTU house furnace (oil)	0981D20				23	1.49				
Damper controller - electrical	09E1210				24	1.43				
Board (finished) interior wall	0615700				26	1.01				
Pipe insulation	0984140						15	1.55		
Pipe and fitting, oxygen	0833210						17	1.20		
Pipe and fitting, anesthesia	0833110						19	1.16		
Pipe and fittings, cold water, steel or cast iron	0813100						20	1.07		
Chillers two-stage absorber, 900 tons	0991A20						21	1.00		

				ental Clir by Comp	-	=				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Built-up roofing	0311100	10.00	1	9.43	1	9.98	1	12.81	1	9.40
Fluorescent lighting fixture	1131300	5.83	2	7.24	2	4.95	5	4.32	9	4.18
Sink, stainless steel	0811F00	3.54	3	4.08	10	2.44	11	2.86	5	5.22
Vinyl asbestos tile flooring	062A200	3.02	9	2.65	7	3.31	7	3.76	14	2.91
Solid core (painted) interior door	0533210	2.48			20	1.33	20	1.13	3	5.40
Sheetrock (unstippled) wall	0611300	2.37	4	3.71	16	1.64	17	1.44		
Thermostats/ pnematics	09E1110	2.25	5	3.54	23	1.12	16	1.48		
Switchgear, indoor below 600V	1117100	2.20	13	1.83	6	3.33	10	2.86		
25,000 CFM multi-zone	09A1130	2.17	10	2.35	5	3.61				
100 ton chillers ACH recip	0991430	1.75	12	1.88	8	2.92				
2,000 BTU boiler (oil)	0981320	1.71	22	1.21	4	3.79				
Hollow core (painted) interior door	0533110	1.60	7	2.85	3	4.42				
Carpet, floor	0629100	1.52	17	1.54	14	1.81			16	2.31
300 tons chillers hermetic cent.	0991620	1.47	6	3.21						
Receptacle and plug	1127200	1.30	19	1.47	25	1.04			21	1.73
Linoleum flooring	062A100	1.29	8	2.82						

				ental Cli by Com						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	O	rd ·
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Deaerator	0981A10	1.26			12	2.04			2	5.46
2,000 BTU boiler (dual-fired)	0981410	1.24					3	4.99	4	5.39
Expansion chamber, cold water	0813700	1.24			9	2.49			10	4.12
Drinking fountain	0811H00	1.22	15	1.61						
Ceramic tile wall	0612800	1.21		_	13	1.87	18	1.27		
Contactors and relays	1124000	1.06							15	2.67
Pipe and fittings, waste and vent	0812100	1.04	23	1.18			21	1.11		
Vacuum pump	0831120	1.03	26	1.00	24	1.12			18	1.98
50 tons chillers ACH recip	0991420	1.02			15	1.65			8	4.42
50,000 CFM dual duct	09A1240		11	1.91						
Aluminum louvers in frame, 1st floor	0433210		14	1.77						
Hot water heater, electric, 1,000-gal	0814 <b>J</b> 00		16	1.59						
Valve, drain, cold water	0813600		18	1.53						
Valve, drain, hot water	0814600		20	1.36						
Formica interior wall	0614100		2i	1.21						
Pipe insulation	0984140		24	1.09			13	1.91		
25,000 CFM term. reheat	09A1630		25	1.05				i		

				ental Cli by Comp						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens/	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Feedwater supply	0981910				11	2.13				
1 HP compressed air plumbing system	0831110				17	1.47	14	1.87		
50 tons chillers WCH recip	0991520				18	1.42	9	3.07		
Damper controller - electrical	09E1210				19	1.37			11	4.07
Gate valve, 3/8" - 1 1/2"	0984210				21	1.24				
Board (finished) interior wall	0615700				22	1.20				
10,000 CFM multi-zone	09A1120				26	1.03	12	2.32		
250 BTU boiler (oil)	0981310						2	6.07		
20 tons chillers ACH recip	0991410						4	4.85		
6,500 CFM dual duct	09A1210				·		6	3.89		
Plaster wall	0611100						8	3.23		
Battery, primary dry	1283200						12	2.48		
Motor starter, 0-600V	1123600						15	1.58	17	2.12
Steam trap, F&T < 1"	0984370						19	1.14		
Distribution, gutters, pipe	0822100						22	1.06	24	1.02

			-	ental Cli by Comp						
Component Description	CACES ID No.	% of Total	Bragg		Wo	od	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
25,000 CFM dual duct	09A1230								6	4.74
Switchgear, indoor above 600V	1117200								7	4.45
Expansion chamber, hot water	0814700								12	3.74
Sheetrock (stippled) wall	0611200								13	2.91
Transformer, dry above 15,000V	1114200								19	1.87
Emergency lighting fixture	1131500								20	1.73
Brass interior lockset	0582100								22	1.35
Transformer, dry belov 15,000V	1116200								23	1.34

				ealth Cli By Com						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Built-up roofing	0311100	6.90	1	10.53	1	10.85				
Shingles	0311350	5.67	9	3.02	21	1.22			1	11.71
Carpet, floor	0629100	4.31	13	2.08					2	9.77
Chiller-air cool recip. 15-ton	0991460	4.30	2	10.22						
Fluorescent lighting fixture	1131300	4.16	6	3.27	11	1.80			4	6.77
Hollow core (painted) wood interior door	0533110	3.83	3	8.72						
Vinyl asbestos tile flooring	062A200	3.69	7	3.16	5	4.50			11	3.79
Plaster wall	0611100	3.54	5	6.69	7	3.17				
10,000 CFM variable volume	09A1520	3.27							3	9.30
2 tons window A/C	0991220	3.04	4	7.23						
Solid core (painted) wood interior door	0533210	2.96	10	2,62					6	5 16
Switchgear, indoor 0-600V	1115100	2.27	19	1.32	20	1.25			8	4.07
Forced draft fan, 10,000 CFM	09B2110	2.07							5	5.89
6,500 CFM multizone	09A1110	1.97			2	8.66				
Chiller-air cool recip. 10-ton	0991450	1.78			3	7.82				
Thermostats/ pneumatics	09E1110	1.76	11	2.38	16	1.42			21	1.22

				ealth Cli Ry Com						
Component Description	CACES ID No.	% of Total	Br	agg	Wo	ood	Dev	ens/	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Sheetrock (stippled) wall	0611200	1.63							7	4.64
Sink, stainless steel	0811F00	1.56			18	1.35			13	2.97
Drinking fountain	0811H00	1.55	17	1.80	12	1.71			22	1.14
Expansion chamber, cold water	0813700	1.42							9	4.04
Time control clock	1261100	1.33							10	3.79
Receptacle and plug	1127200	1.33	25	1.10					15	1.86
Concrete block (WP/P), 1st floor	0415910	1.30	8	3.08						
2,000 BTU boiler (dual-fired)	0981410	1.30							12	3.69
Switchgear, indoor below 600V	1117100	1.28	16	1.88	9	2.10				
Distribution, gutters, pipe	0822100	1.23	26	1.04	19	1.30			18	1.40
Plaster ceiling	0631100	1.12	15	1.90	17	1.42				
Wood louvered interior doors	0534230	1.03			4	4.52				
200 KBTU house furnace (gas)	0981C30		12	2.25						
Insulation, pipe	0814800		14	1.98						
Exhaust fan, 1,000 CFM	09C1120		18	1.59						
Lavatory, enameled steel	0811600		20	1.27						

				ealth Cli By Comp						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Aluminum operable windows, 1st floor	0431110		21	1.27						
Safety switch enclosed	1122100		22	1.23						
Linoleum flooring	062A100		23	1.21						
Solid core (painted) wood exterior door	0423210		24	1.16						
250 BTU bolier (oil)	0981310				6	3.30				
Cond. rcvr 10-15 gal	0984460				8	2.12				
Radiator, finned wall 10' section	0981H00				10	1.86				
Ceramic tile wall	0612800				13	1.62			17	1.42
Aluminum siding exterior, 2nd floor	0415I20				14	1.51				
Exhaust fan, 10,000 CFM	09C1130				15	1.48				
Fire alarm control panel	1221600				17	1.38				
Incandescent lighting fixture	1131100				22	1.19				
Pipe & fittings, waste & vent	0812100				23	1.10				
Sheetrock (unstippled) wall	0611300				24	1.03				
Aluminum siding exterior, 1st floor	0415110				25	1.02				
Vinyl interior wall	0614400								14	2.59

				ealth Cli By Com						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	vens	Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Expansion chamber, hot water	0814700								16	1.51
Building structure ground	1114200								19	1.28
Brass interior lockset	0582100								20	1.25
Pipe & fittings, CW, steel or cast iron	0813100				-				23	1.01

				l Purpose By Comp						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Carpet, floor	0629100	8.70	1	7.52	2	4.93	1	22.48	8	3.91
Shingles	0311350	8.14	3	3.64	1	5.22	3	5.97	1	12.41
Vinyl asbestos tile flooring	062A200	4.63	5	3.04	5	3.79			2	7.61
Fluorescent lighting fixture	1131300	4.37	2	4.89	4	4.10	8	3.22	6	4.59
200 KBTU house furnace (gas)	0981C30	3.29							3	7.20
Wood finished (multi-coat) exterior, 1st floor	0415F10	3.01							4	6.14
Switchgear, indoor 0-600V	1115100	2.39					19	1.27	7	4.12
Sheetrock (stippled) wall	0611200	2.35							5	5.15
250 BTU boiler (gas)	0981110	2.32					2	11.43		
25 KBTU house furnace (gas)	0981C10	2.19					12	2.27	9	3.82
Dbl pane wood frame operable window, 1st floor	0431810	1.60							10	3.56
Drinking fountain	0811H00	1.54	20	1.07	19	1.35	17	1.49	15	1.88
Sheetrock (stippled) ceiling	0631200	1.54							11	3.42
Sheetrock (unstippled) wall	0611300	1.54	9	2.59	8	2.58			21	1.34
Double pane wood frame operable window, 2nd floor	0431820	1.38							12	3.05

## General Purpose Admin Cost By Component CACES % of Component Description ID No. Total Wood Devens Bragg Ord % of % of % of % of Total Total Rank Rank Total Rank Rank Total Wood, finished 0415F20 1.26 2.71 13 (multi-coat) exterior, 2nd floor Receptacle and 1127200 1.25 1.13 24 21 1.14 19 1.57 plug Hollow core 0533110 1.24 7 2.73 11 2.10 (painted) wood interior door Sheetrock 0631300 1.22 21 5 1.30 4.00 (unstippled) ceiling 0822100 Distribution, 1.16 17 1.78 gutters, pipe 0311100 1.13 4 3.52 10 2.31 Built-up roofing 250 BTU boiler 0981310 1.03 6 3.87 (oil) Metal roofing 0311360 6 2.89 Pipe/fittings, 0923100 8 2.62 copper (fuel oil) Generator, gasoline 2.22 1281100 10 powered Thermostats/ 09E1110 2.21 17 1.50 i 1 pneumatics

12

13

14

15

2.16

1.88

1.84

13

25

3

Solid core

below 600V

(painted) wood interior door

Switchgear, indoor

Aluminum siding

exterior, 1st floor

1-ton window A/C

0533210

1117100

0415I10

0991210

1.76

1.11

4.58

				l Purpos By Com	e Admin ponent					
Component Description	CACES ID No.	% of Total	Br	agg	We	ood	Des	ens .	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Panel (laminated) interior wall	0615600		16	1.40						
2,000 BTU boiler (dual-fired)	0981410		17	1.33						
Chiller-air cool recip. 10-ton	0991450		18	1.12	12	2.01				
Hot water heater, electric, 120-gal	0814H00		19	1.09						
6,500 CFM single- zone draw thru	09A1C10		21	1.07	15	1.66				
Chiller-air cool recip. 5-ton	0991440		22	1.05	9	2.33				
6,500 CFM dual duct unit	09A1210				6	3.43				
Aluminum siding exterior, 2nd floor	0415I20				7	3.33				
20 tons chillers ACH recip.	0991410				14	1.71				
Motor starter, 0-600V	1123600				16	1.59				
200 KBTU house furnace (oil)	0981D30				18	1.37				
Battery, secondary dry	1283400				20	1.33				
Fabric partition	0522100				22	1.28				
20,000 BTU boiler (dual-fired)	0981420				23	1.22				
Concrete block (painted) wall	0612400				26	i.10				

				l Purpos By Com						
Component Description	CACES ID No.	% of Total	· •		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood frame (painted) operable window, 2nd floor	0431320						4	4.41		
Plywood (painted/stained) interior wall	0615100						7	3.78		
Formica-vinyl exterior, 2nd floor	0415O20						9	3.20		
Wallpaper interior wall	0614500						10	3.07		
Cork interior wall tile	0619300						11	2.77		
Hot water heater, gas/oil, 75-gal	0814E00						13	2.27		
Plaster wall	0611100						14	1.75		
Wood frame (painted) operable window, 1st floor	0431310						15	1.73		
Lavatory, vitreous china	0811500						16	1.64	22	1.11
Formica-vinyl exterior, 1st floor	0415O10						18	1.31		
Tankless water closet	0811100						20	1.19		
Bathtub, cast iron	0811700						22	1.06		
Switchgear, indoor above 600V	1117200								14	2.11
Expansion chamber, cold water	0813700								16	1.85

				l Purpos By Com	e Admin ponent					
Component Description									rd	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Solid core (painted) wood exterior door	04232100								18	1.63
Brass interior lockset	0582100								20	1.48
Pipe & fittings, waste & vent	0812100								23	1.05
Wainscot interior wall	0615900		Ì						24	1.01

Family	Hou	ısing	1900-1950
Cos	t by	Com	ponent

	1	1		by Comp	Jonesia					
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Chiller-air cooler recip. 5-ton	0991440	8.45	1	10.75						
Plaster wall	0611100	7.56	2	5.49			2	15.17		
250 BTU boiler (gas)	0981110	4.59					1	21.53		
Tile roofing	0311330	4.17	3	5.29						
Plaster ceiling	0631100	4.13	8	3.65			5	5.89		
Hot water heater, electric, 120-gal	0814H00	3.59	4	4.56						
Solid core (painted) wood interior door	0533210	3.54	5	4.50						
Maple floor	0625200	3.34	7	3.73			11	1.89		
Hot water heater gas/oil 1,000 GPH recovery	0814F00	3.12					3	14.64		
Single-zone draw thru 1,000 CFM	09A1C50	3.04	6	3.86						
Stucco interior, 2nd floor	0415C20	2.85	9	3.62						
Wood frame (painted) operable window, 2nd floor	0431320	2.65	13	2.46			7	3.32		
Stucco exterior, 1st floor	0415C10	2.25	10	2.86						
Wood unfinished ceiling	0635200	2.25	11	2.86						
Switchgear, indoor below 600V	1117100	2.17	12	2.76						
Wood finished ceiling	0635100	2.06	18	1.71			8	3.32		

## Family Housing 1900-1950 Cost by Component **CACES** % of Component Description ID No. Total Bragg Wood **Devens** Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total Aluminum frame 0434120 1.71 14 2.18 storm windows. 2nd floor 0822100 19 1.70 Distribution, 1.66 13 1.49 gutters, pipe Wood frame 0431310 1.64 16 1.76 15 1.22 (painted) operable window, 1st floor Incandescent 1131100 1.61 21 1.42 9 2.30 lighting fixture 0311350 1.60 Shingles 6.14 Dishwasher 0841100 1.57 15 2.00 0561100 1.37 17 1.75 Wood trimming Thermostats/ 09E1110 1.21 23 1.28 pneumatics Aluminum (plain 0426110 1.15 20 1.46 & anodized) screen/storm door Aluminum frame 0434110 1.09 22 1.39 storm windows. 1st floor Ceramic tile wall 0612800 1.09 10 1.90 0811700 1.06 Bathub, cast iron 12 1.63 Clay block 0612200 24 1.16 (painted) wall Valve, drain, HW 0814600 25 1.10 Wood parquetry 0625100 6 4.28 flooring Wood frame 0432320 14 1.38 (painted) fixed

window, 2nd floor

			Family I Cost	lousing 1		0				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wiring device, switch	1127100						16	1.01		

				Housing by Comp						
Component Description	CACES ID No.	% of Total	Bragg		Bragg Wood		Dev	ens/	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Plaster wall	0611100	6.75					20	1.19	1	15.62
Shingles	0311350	6.71	3	5.89	4	6.71	9	4.06	2	8.14
Sheetrock (unstippled) wall	0611300	5.84	1	9.37	3	6.80	2	14.10		
100 KBTU house furnace (gas)	0981C20	4.48	24	1.13			3	8.92	4	7.51
Chiller-air cool, recip., 5-ton	0991440	4.34	2	8.81	1	9.90				
Hollow core (painted) wood interior door	0533110	4.01	4	4.94	2	7.77	5	5.08	11	2.54
Carpet, floor	0629100	3.42							3	8.01
Dishwasher	0841100	2.99	9	2.59	12	2,29	7	4.44	9	3.18
Vinyl asbestos tile fooring	062A200	2.93	10	2.35			6	5.05	8	3.32
Hot water heater, gas/oil, 75-gal	0814E00	2.58	6	3.12			8	4.15	16	1.85
Plaster ceiling	0631100	2.45							5	5.23
Shectrock (unstippled) ceiling	0631300	2.25	5	3.44	8	3.22	4	6.65		
Stucco exterior, 2nd floor	0415C20	2.08							6	4.22
Built-up roofing	0311100	2.04	19	1.23			1	16.41		
Stucco exterior, 1st floor	0415C10	1.83							7	3.58
Receptacle and plug	1127200	1.81	14	1.33			16	1.50	12	2.45
Maple floor	0625200	1.65	7	3.10	10	2.40	14	1.66		
Hot water heater, gas/oil, 30-gal	0814D00	1.58					12	1.85	10	2.81

				Housing						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	юd	Dev	ens	O	rd
			Rank	% of Total						
Incandescent lighting fixture	1131100	1.52	15	1.33					15	1.88
Wiring device, switch	1127100	1.45	28	1.05	23	1.02	18	1.36	14	1.93
Wood unfinished ceilng	0635200	1.43	8	2.85						
Switchgear, indoor below 600V	1117100	1.41	11	2.34	13	2.19				
25 KBTU house furnace (gas)	0981C10	1.34	12	1.83					19	1.16
Waste disposal, residential	0841200	1.18	29	1.01			13	1.80	18	1.26
Thermostats/ pneumatics	09E1110	1.18	13	1.55	21	1.08				
Bathub, plastic	0811 <b>J</b> 00		16	1.32						
Single-zone draw thru, 1,000 CFM	09A1C50		17	1.31						
Aluminum (pln. & anodized) screen/storm door	0426110		18	1.30	14	2.19				
Valve, drain, HW	0814600		20	1.22						
Hollow core (painted) wood sliding interior door	0533120		21	1.19	20	1.31				
Linoleum flooring	062A100		22	1.19						
Exhaust fan, 25,000 CFM	09C1140		23	1.16						
Valve, drain, CW	0813600		25	1.08						
Steel louvered interior door	0534220		26	1.07						

				Housing						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens ens	О	rd
			Rank	% of Total						
Distribution, gutters, pipe	0822100		27	1.05						
Exhaust fan, 10,000 CFM	09C1130			_	5	6.27				
100 KBTU house furnace (oil)	0981D20	-			6	4.61		-		:
Aluminum siding, 1st floor	0415110				7	4.06				
Vinyl sheet flooring	062A400				9	3.15				
200 KBTU house furnace (oil)	0981D30				11	2.37				
Double pane alum. operable windows, 1st floor	0431610	_			15	1.89				
Aluminum frame screen window cover, 1st floor	0434610				16	1.71			_	
Metal ceiling (painted)	0636100				17	1.60				
Concrete decking- porch	0441100				18	1.55				
Ceramic tile wall	0612800				19	1.39	17	1.39		
Doorbell	1215000				22	1.07				
Aluminum operable windows, 1st floor	0431110						10	2.06		
Fluorescent lighting fixture	1131300						11	1.86		
Concrete block (painted) wall	0612400						15	1.58		

				Housing						
Component Description	CACES ID No.	% of Total	Bra	agg	Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Bathub, cast iron	0811700						19	1.32	22	1.01
Sink, stainless steel	0811F00						21	1.14		
Flush tank water closet	0811200						22	1.13		
250 BTU boiler (gas)	0981110			_					13	2.18
Sheetrock (stippled) wall	0611200								17	1.69
Expansion chamber, cold water	0813700								20	1.14
Steel (painted) metal exterior	0421210								21	1.06

### Family Housing (Capehart) Cost by Component **CACES** Component % of Description ID No. Total Bragg Wood Devens Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total Sheetrock 0611300 7.41 2 8.59 2 8.40 1 16.58 14 1.71 (unstippled) wall Built-up roofing 0311100 6.95 1 9.60 1.63 15.50 16 1 Chiller-air cool 0991440 5.96 4 5.63 1 10.06 recip., 5-ton Hollow core 0533110 5.50 5 5.37 4 6.26 3 5.61 (painted) wood interior door 100 KBTU house 0981C20 3.90 16 1.50 12 2.63 2 10.82 2 7.60 furnace (gas) Shingles 0311350 3.53 10 2.61 5 4.98 3 9.60 09C1130 3 Exhaust fan. 3.45 7.94 10,000 CFM 0841100 2.36 7 Dishwasher 3.10 11 2.67 15 1.76 1117100 2.34 6 10 2.79 1.09 Switchgear, 3.13 25 indoor, below 600V 2.32 Sheetrock 7 0631300 26 1.11 3.42 5 7.07 (unstippled) ceiling 0625200 8 Maple floor 2.17 13 2.12 2.90 20 1.38 Hot water heater, 0814E00 2.07 25 2.04 4 7.18 1.95 1.18 13 12 gas/oil, 75-gal 0814H00 Hot water heater, 1.95 3 6.36 electric, 120-gal 0625100 9 Wood parquetry 1.67 2.68 14 1.77 6 3.58 flooring 100 KBTU house 0981D20 1.58 6 3.64 furnace (oil) Aluminum (plain 0426110 1.55 12 2.17 14 1.98 and anodized)

screen/storm door

				lousing (	Capehari ponent	t)		-		
Component Description	CACES ID No.	% of Total	Br	agg	Wo	ood	Dev	vens	О	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Vinyl sheet flooring	062A400	1.51			9	2.87				
Receptacle and plug	1127200	1.31	22	1.25	22	1.06	8	2.43	16	1.58
Thermostats/ pneumatics	09E1110	1.25	21	1.26	18	1.32	16	1.73		
Plaster ceiling	0631100	1.21	8	2.71					13	1.94
Sheetrock (stippled) wall	0611200	1.19						_	4	5.19
Wiring device, switch	1127100	1.17			23	1.06	11	2.16	21	1.38
Incandescent lighting fixture	1131100	1.15	17	1.46			12	2.02	15	1.60
Distribution, gutters, pipe	0822100	1.13	23	1.23	21	1.08	9	2.29		
Waste disposal, residential	0841200	1.08	24	1.21	24	1.06	10	2.23		
Plaster wall	0611100	1.05							5	4.66
Ceramic tile wall	0612800	1.04	20	1.34			21	1.51	18	1.44
25-KBTU house furnace (oil)	0981 <b>D</b> 10		11	2.19						
Wood louvered interior doors	0534230		14	2.10						
Concrete block (painted) wall	0612400		15	1.52						
Single-zone draw through, 1,000 CFM	09A1C50		18	1.39						
Wood unfinished ceiling	0635200		19	1.35						

# Family Housing (Capehart) Cost by Component

			Cust	by Comp	MIEIIL					
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Double pane aluminum operable window, 1st floor	0431610		27	1.09	25	1.04				
Wood trimming (interior)	0561100		28	1.07						
Valve, drain HW	0814600		29	1.05						
Aluminum siding, exterior, 1st floor	0415110				15	1.85				
Fluorescent lighting fixture	1131300				17	1.50				
Metal ceiling (painted)	0636100				19	1.17				
Overhead service feeder	1112000				20	1.11				
Vinyl asbestos tile flooring	062A200						6	4.26		
Wood frame (painted) operable window, 2nd floor	0431320						7	3.41		
Wood frame (painted) operable window, 1st floor	0431310						13	1.80		
Sink, stainless steel	0811F00						17	1.71	23	1.17
Solid core (painted) wood exterior door	0423210						18	1.53	19	1.43
Lavatory, iron, enamel	0811400						19	1.53		
Wood frame (painted) fixed window, 1st floor	0432310						20	1.51		

		1		lousing ( by Com <sub>l</sub>	Capehar conent	t)					
Component Description	CACES ID No.	% of Total	Bra	Bragg Wood Devens		О	rd				
				Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Bathtub, enameled steel	0811800						22	1.33	27	1.04	
Flush tank water closet	0811200						23	1.31			
Exhaust fan, 200 CFM	09C1110						24	1.17			
Safety switch, enclosed	1122100	-					25	1.14			
Hollow core (painted) wood exterior door	0423110						26	1.05			
Steel sliding (painted) interior doors	0531130								7	3.28	
Stucco exterior, 1st floor	0415C10				-				8	2.98	
Solid core wood (painted) sliding interior door	0533220								9	2.39	
Sink, iron enamel	0814D00								10	2.21	
Sheetrock (stippled) ceiling	0631200								11	2.20	
Wood, finished (multi-coat) exterior, 1st floor	0415F10								17	1.47	
Wood exterior gate	0425300								22	1.37	
Switch, pull cord	1127300								24	1.15	
Hollow core wood (painted) sliding interior door	0533120								26	1.07	

Family Housing (Capehart)  Cost by Component											
Component CACES % of Description ID No. Total Bragg Wood Devens Ord											
			Rank	% of Total							
Aluminum operable window, 1st floor	0431110								28	1.02	

Family Housing (Wherry) Cost by Component											
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	De	vens	Ord		
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total	
Shingles	0311350	7.44	2	7.60			2	9.06	4	6.72	
Sheetrock (unstippled) wall	0611300	6.87	1	8.12			l	22.76	24	1.16	
Hot water heater, electric, 120-gal	0814H00	6.02	3	7.56							
Chiller-air cool recip. 5-ton	0991440	3.65	4	4.58		-					
Maple floor	0625200	3.43	5	4.19							
Dishwasher	0841100	3.29	8	3.73			4	8.83	20	1.31	
25 KBTU house furnace (electric)	0981E10	3.24	6	4.07							
Sheetrock (unstippled) ceiling	0631300	3.16	7	3.88			3	9.02			
Switchgear, indoor below 600V	1117100	3.05	9	3.71							
Wood unfinished ceiling	0635200	2.60	10	3.26							
Built-up roofing	0311100	1.93							1	9.09	
Aluminum (plain & anodized) screen/storm door	0426110	1.89	11	2.37							
Wood parquetry flooring	0625100	1.84	15	1.85					13	1.84	
Wood trimming (interior)	0561100	1.73	12	2.11							
Thermostats/ pneudraulics	09E1110	1.69	16	1.80					19	1.31	
100 KBTU house furnace (gas)	0981C20	1.65							2	8.42	
Distribution, gutters, pipe	0822100	1.64	13	1.94			13	2.23			

## Family Housing (Wherry) Cost by Component **CACES** Component % of Description ID No. Total Wood **Devens** Ord **Bragg** % of % of % of % of Total Total Rank Rank **Total** Rank Total Rank 3 7.83 Plaster wall 0611100 1.53 09A1C50 14 1.88 1.50 Single-zone draw thru 1,000 CFM 0533210 1.42 17 1.52 25 1.10 Solid core (painted) wood interior door 10 2.56 14 1.81 Receptacle and 1127200 1.31 20 1.18 plug 1131100 21 23 1.23 Incandescent 1.15 1.13 lighting fixture 0814600 1.14 18 1.41 Valve, drain HW Hollow core 0533110 1.08 8 3.13 (painted) wood interior door 1.32 0533120 1.05 19 Hollow core (painted) wood siding interior door 22 Linoleum flooring 062A100 1.12 23 Exhaust fan, 1,000 09C1120 1.12 **CFM** 0813600 24 1.03 Valve drain CW 5 8.47 0814200 Pipe & fittings, copper, HW 6 5.08 Steel frame 0431220 (painted) operable window, 2nd floor 7 3.58 0841200 Waste disposal, residential

Bathub, cast iron

0811700

8

3.34

Family	Ho	using	(W	herry)
Cost	by	Com	pon	ent

Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	vens	o	rd
			Rank	% of Total						
Solid core (painted) wood exterior door	0423210						9	2.69	15	1.71
Steel frame (painted) operable window, 1st floor	0431210						11	2.46		
Wiring device, switch	1127100						12	2.33	22	1.30 .
Sink, stainless steel	0811F00						14	2.22		
Formica-vinyl exterior, 2nd floor	0415O20						15	2.15		
Concrete, finished interior wall	061A200								5	4.91
Vinyl asbestos tile flooring	062A200								6	4.06
Plaster ceiling	0631100								7	3.32
Solid core (painted) wood sliding interior door	0533220								9	2.94
Hot water heater, gas/oil, 75-gal	0814E00							_	10	2.91
Stucco exterior finish	0415C10								11	2.75
Concrete exterior finish	0415A10								12	2.60
Wood frame (painted) operable window, 1st floor	0431310								16	1.61
Hot water heater, gas/oil, 30-gal	0814D00								17	1.51

Family	Housir	ig (Wherry)
Cost	by Co	mponent

Cost by Component										
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood exterior gate	0425300								18	1.49
Steel painted interior door	0531110				_				21	1.30
Plywood (painted) interior wall	0615100								26	1.10
Sheetrock (stippled) ceiling	0631200								27	1.08

## **UPH Enlisted Personnel Cost by Component**

Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Vinyl asbestos tile flooring	062A200	5.64	1	6.41	11	1.77	2	4.45	2	5.39
Built-up roofing	0311100	4.86	2	4.69	4	4.65	7	2.98	1	7.12
Concrete block (painted) wall	0612400	4.42	3	4.59	3	4.97	3	4.10	5	3.69
Thermostats/ pneumatics	09E1110	3.67	4	4.36	6	4.34	21	1.48	10	2.39
Solid core (painted) wood interior door	0533210	3.52	8	3.28	5	4.61	4	3.50	4	3.97
200 CFM two-pipe fan coil	09A1910	2.89	5	4.34	14	1.63				
Shingles	0311350	2.72	9	3.19			1	5.17		
Fluorescent lighting fixture	1131300	2.64	10	2.97	16	1.61			7	3.15

				nlisted P by Comp						
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Hollow core (painted) wood interior door	0533110	2.53	6	3.92						
Ceramic tile wall	0612800	2.32	11	2.72	7	4.06			18	1.55
Chiller-air cool recip., 10-ton	0991450	2.22	7	3.48						
600 CFM two-pipe fan coil	09A1930	1.82	16	1.69	2	9.35				
Sheetrock (unstippled) wall	0611300	1.75	13	2.40			16	1.65		
Pipe insulation	0984140	1.70	18	1.65	19	1.24	10	2.22	15	1.72
Linoleum flooring	062A100	1.62	12	2.41						
Carpet, floor	0629100	1.53			1	11.31			6	3.34
Switchgear, indoor below 600V	1117100	1.53	20	1.56	10	1.92			13	1.82
Battery, secondary dry	1283400	1.50	14	2.24						
6,500 CFM single- zone draw thru	09A1C10	1.41	15	2.21						
Receptacle and plug	1127200	1.29	22	1.29	18	1.45			20	1.46
Tankless water closet	0811100	1.22	25	1.15	13	1.66			21	1.46
Drinking fountain	0811H00	1.20	21	1.36			14	1.85		
Lavatory, enameled steel	0811600	1.12	19	1.65						
Exhaust fan, 10,000 CFM	09C1130	1.08	17	1.68						
Incandescent lighting fixture	1131100	1.01					17	1.58		

				nlisted P by Comp						
Component Description	CACES ID No.			Bragg		Wood		Devens		rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
250 BTU boiler (oil)	0981310		23	1.27						
200 KBTU house furnace (gas)	0981C30		24	1.26						
Sheetrock (unstippled) ceiling	0631300		26	1.05						
Damper controller - electrical	09E1210				8	3.63				
Shower, terrazzo	0311900				9	3.56			11	2.01
Lavatory, iron, enamel	0811400				12	1.72	12	1.97	19	1.54
Motor starter, 0-600V	1123600				15	1.61				
Floor drain, without bucket	0812210				17	1.56				
1 HP compressed air plumbing system	0831110				20	1.13				
Smoke detector	1221200				21	1.09				
Wire mesh wall	0616400						5	3.46		
Wood frame (painted) operable window, 2nd floor	0431320						6	3.05		
100 KBTU house furnace (oil)	0981D20						8	2.92		
Plywood (painted) interior wall	0615100						9	2.32		
Wood finished ceiling	0635100						11	2.12		

				nlisted P by Com <sub>l</sub>						
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Battery, primary wet	1283100						13	1.90		
Aluminum frame screen window cover, 3rd floor	0434630						15	1.71		
Wood trimming (interior)	0561100						18	1.55		
Radiator, finned wall, 10' section	0981H00		,				19	1.52	27	1.10
Sheetrock (stippled) ceiling	0631200						20	1.52		
Aluminum operable window, 3rd+ floor	0431130						22	1.47		_
Aluminum frame screen window cover, 1st floor	0434620						23	1.39		
Formica-vinyl exterior, 2nd floor	0415O20						24	1.20		
Concrete, finished flooring	062B200						25	1.15		
Solid core wood (safety glass) paint exterior door	0423230						26	1.12		
Safety switch, enclosed	1122100						27	1.07		
Urinal	0811300						28	1.03		
Concrete, finished interior wall	061A200								3	5.04
Finned radiator, wall 10'	0943300								8	2.86

## **UPH Enlisted Personnel** Cost by Component **CACES** Component % of Description ID No. Total Bragg Wood Devens Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total Steam trap, F&T < 0984370 9 2.40 2,000 BTU boiler 0981410 1.98 12 (dual-fired) Stucco exterior, 0415C30 1.75 14 3rd+ floor 0814J00 Hot water heater, 16 1.66 electric, 1,000 gal Sheetrock 0611200 17 1.57 (stippled) wall Stucco exterior, 0415C20 22 1.32 2nd floor 0812100 Pipe and fittings, 23 1.20 waste and vent Concrete, finished 063A200 24 1.16 ceiling Exhaust fan, 1,000 09C1120 1.16 25 **CFM** Ceramic trimming 0561400 26 1.14 (interior) Steel frame 0431230 28 1.01 (painted) operable window, 3rd+ floor

Tra	ine	e B	arrac	ks
Cost	by	Co	mpon	ent

Component Description				Bragg Wood			Dev	ens	Ord	
			Rank	% of Total						
Deaerator	0981A10	10.71			1	10.71				
Vinyl asbestos tile flooring	062A200	8.31			2	8.31				
Built-up roofing	0311100	7.75			3	7.75				
Thermostats/ pneumatics	09E1110	7.23			4	7.23				
Concrete block (painted) wall	0612400	6.22			5	6.22				
Ceramic tile wall	0612800	5.42			6	5.42				
Hollow core (painted) wood interior door	0533110	4.85			7	4.85				
Fluorescent lighting fixture	1131300	4.67			8	4.67				
Fire alarm control panel	1221600	4.49			9	4.49				
Pipe insulation	0984140	3.07			10	3.07	-			
Radiator, finned wall 10' section	0981H00	2.60			11	2.60				
Concrete, finished ceiling	063A200	2.03			12	2.03				
Lavatory, vitreous china	0811500	1.86			13	1.86				
Switchgear, indoor, below 600V	1117100	1.80			14	1.80				
Valve, drain HW	0814600	1.78			15	1.78				
Valve, drain CW	0813600	1.58			16	1.58				
Drinking fountain	0811H00	1.44			17	1.44				

				inee Barı by Comp						
Component Description	CACES ID No.	% of Total	Bra	agg	₩c	ood	Devens		o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Floor drain, without bucket	0812200	1.29			18	1.29				
Receptacle and plug	1127200	1.10			19	1.10				
Gate valve, 3/8" - 1 1/2"	0984210	1.05			20	1.05				
Hot water heater, electric, 1,000-gal	0814J00	1.01			21	1.01		_		

				Dining Fa			· ·			
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens/	o	rd
			Rank	% of Total						
Built-up roofing	0311100	7.31	2	5.60	1	8.64	3	6.85	1	12.20
20,000 BTU boiler (dual-fired)	0981420	4.85					1	29.17		
Shingles	0311350	3.81	1	6.08	13	1.92	8	2.33	16	2.01
Quarry tile flooring	0622200	3.43	8	3.39	4	4.64			4	5.57
Vinyl astestos tile flooring	062A200	3.32	3	4.80	11	2.58	19	1.24	13	2.53
Fluorescent lighting fixture	1131300	3.24	7	4.03	9	2.95	9	2.06	11	2.61
Exhaust fan, 10,000 CFM	09C1130	3.01	9	3.26	8	3.19	12	1.86	6	3.32
Aluminum louvers in frame, 1st floor	0433210	2.76			2	8.57				
Deaerator	0981A10	2.04	25	1.02	6	3.55			3	5.80
10,000 CFM single-zone draw thru	09A1C20	2.00	18	1.57	7	3.23	13	1.73		
Ceramic tile wall	0612800	1.97	17	1.71	5	3.86				
Chiller-air cool recip., 5-ton	0991440	1.96	6	4.13						
200 KBTU house furnace (gas)	0981C30	1.90	5	4.19						
Single-zone draw thru, 2,500 CFM	09A1C60	1.89	4	4.33						
Battery, secondary wet	1283300	1.60			3	5.03				
Wood, finished (multi-coat)	0415F10	1.50	10	3.22						

exterior, 1st floor

	_	acilities onent

l			Cost	by Comp	onelit					
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Motor starter, 0-600V	1123600	1.38			12	2.03	10	1.91	5	3.66
Pipe insulation	0984140	1.37			10	2.61	6	2.80		
Switchgear, indoor, 0-600V	1115100	1.28	12	2.38						
Sheetrock (unstippled) wall	0611300	1.25	14 -	2.19						
Hollow core (painted) wood interior door	0533110	1.24	11	2.76						
6,500 CFM single- zone draw thru	09A1C10	1.24			15	1.51	16	1.43	12	2.57
Steel louvers with frame, 1st floor	0433310	1.24					2	7.06		
Switchgear, indoor, below 600V	1117100	1.21	21	1.27	18	1.33	21	1.10		
Thermostats/ pneumatics	09E1110	1.16	15	1.97						
25,000 CFM single-zone draw thru	09A1C30	1.10	16	1.96					8	3.01
1-ton window A/C	0991210		13	2.20					i	
100 KBTU house furnace (gas)	0981C20		19	1.52	·				22	1.20
Wood frame (painted) operable window, 1st floor	0431310		20	1.52						
Aluminum frame storm windows, 1st floor	0434110		22	1.22						

				Dining Fa						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens/	О	rd
			Rank	% of Total						
Solid core (painted) wood interior door	0533210		23	1.12						
Wood panel (laminated) interior wall	0615600		24	1.06						
2,000 BTU boiler (oil)	0981320				14	1.72				
Aluminum siding exterior, 1st floor	0415I10				16	1.49		·		
1 HP compressed air plumbing system	0831110				17	1.35				
Hot water heater, electric, 1,000-gal	0814J00				19	1.31				
10,000 CFM multi-zone unit	09A1120				20	1.12				
Floor drain, without bucket	0812200				21	1.04			23	1.17
100 tons chillers ACH recip.	0991430						4	4.57		
Battery, primary dry	1283200						5	3.43		
Carpet, floor	0629100						7	2.53		
Feedwater supply	0981910						11	1.86	7	3.15
Ind. draft fan, 10,000 CFM	09B2120						14	1.60		
Steam trap, F&T < 1"	0984370						15	1,44	17	1.96
Safety switch, enclosed	1122100						17	1.32		

				Dining Fa						
Component Description	CACES ID No.	% of Total	Br	agg	Wo	ood	Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood finished ceiling	0635100						18	1.31		
Metal ceiling (painted)	0636100		•				20	1.10		
10,000 BTU boiler (gas)	0981130								2	10.12
Wood louver in frame, 1st floor	0433110						-		9	2.99
Hot water heater, electric, 300-gal	0814100								10	2.72
Expansion chamber, CW	0813700								14	2.14
Switchgear, indoor above 600V	1117200								15	2.05
Exhaust fan, 50,000 CFM	09C1150		_						18	1.66
Distribution, gutters, pipe	0822100								19	1.44
Exhaust fan, 25,000 CFM	09C1140								20	1.38
Damper controller - electrical	09E1210								21	1.25
Concrete block (WP/P) exterior, 1st floor	0415910								24	1.04

#### **UPH Officers** Cost by Component Component CACES % of Description ID No. Total **Bragg** Wood Devens Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total 0533110 6.34 4 5.61 6.32 2 2 Hollow core 1 7.68 6.75 (painted) wood interior door 062A200 4.97 2 8 7 Vinyl asbestos tile 5.18 4.42 3.14 4 4.73 flooring 0311100 4.25 3 19 7.94 Built-up roofing 5.71 1.53 1 Bathtub, enameled 0811800 3.28 5 4.40 9 8 3.22 3.28 steel 7 Carpet, floor 0629100 3.07 3.78 2.16 1 10.06 16 400 CFM 2-pipe 09A1920 2.98 1 6.92 16 2.03 fan coil unit Ceramic tile wall 0612800 2.18 18 1.62 13 2.31 10 2.59 13 2.59 2.06 Sheetrock 0611300 5 4.88 4 5.51 (unstippled) wall 2.24 Switchgear, indoor 1117100 2.01 13 25 1.18 14 1.68 2.71 11 below 600V 2 Motor starter, 1123600 1.96 6.25 0-600V 09E1110 1.85 4.71 12 2.23 Thermostats/ 6 pneumatics 0311350 1.68 7 4.62 6 3.60 Shingles Solid core 0533210 1.66 6 3.96 26 1.02 (painted) wood interior door Exhaust fan 200 09C1110 1.62 2.87 11 2.87 10 **CFM** Wood louvered 0534230 1.56 3 6.54 9 3.09 interior doors 0981H00 Radiator, finned 1.51 21 7 18 1.56 1.49 3.51

wall 10' section

				PH Offic by Comp						
Component Description	CACES ID No.	% of Total	Bra	agg_	Wo	od	Dev	ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood lcaver in frame, 3rd floor	0433130	1.46			3	5.33				
Solid core (painted) wood sliding interior door	0533220	1.44							3	5.52
250 BTU boiler (gas)	0981110	1.43		_					5	4.50
1-ton window A/C	0991210	1.42			4	5.09				
Plaster ceiling	0631100	1.30	9	3.20						
Plaster wall	0611100	1.26	8	3.24						
Hollow core (painted) wood sliding interior door	0533120	1.24			17	1.78	5	3.95		
Receptacle and plug	1127200	1.23	21	1.29	23	1.26	27	1.01	25	1.21
Incandescent lighting fixture	1131100	1.15	19	1.60			17	1.55		
Sink, stainless steel	0811F00	1.13			21	1.37			14	2.35
Smoke detector	1221200	1.05			14	2.11			21	1.54
Waste disposal, residential	0841200	1.03							6	3.73
Wiring device, switch	1127100	1.02			22	1.29	25	1.22		
Flush tank water closet	0811200	1.01	17	1.69						
Valve, drain CW	0813600		10	2.62						
Valve drain, HW	0814600		11	2.62						

# **UPH Officers** Cost by Component Component % of CACES Description ID No. Total Bragg Wood **Devens** Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total 0561400 Ceramic trimming 12 2.53 (interior) Finned radiator, 0943300 14 2.24 wall 10' section Concrete exterior, 0415A30 15 2.05 3rd floor Lavatory, 0811600 16 1.96 28 1.01 enameled steel 200 CFM 2-pipe 09A1910 20 1.42 fan coil unit Exhaust fan, 09C1140 22 1.24 25,000 CFM Double pane 0431630 23 1.14 aluminum operable window, 3rd floor Exhaust fan 09C1130 24 1.05 10,000 CFM Fluorescent 1131300 25 1.05 lighting fixture 0432630 Double pane 26 1.03 aluminum fixed window, 3rd floor 2,000 BTU boiler 0981120 10 3.15 (gas) 50 tons chillers 0991420 12 2.64 ACH recip. Sheetrock 0631300 15 2.06 11 2.54 (unstippled) ceiling Safety switch 1122410 19 1.54 fused 1 P Stucco interior 0631400 20 1.51

wall

				PH Offic by Com						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Paneled door	0534110				24	1.20				
Pipe insulation	0984140				26	1.15	9	2.67		
Wood frame (painted) interior door	0532210				27	1.06				
Baseboard radiator, 10' section	0943200						8	2.84		
Concrete block (painted) interior wall	0612400						13	1.97	20	1.54
Bathub, cast iron	0811700					_	15	1.63		
Wood trimming (interior)	0561110						16	1.56	   	
Radiator, baseboard 10' section	0981G00						18	1.55		
Aluminum frame storm windows, 2nd floor	0434120						20	1.50		
Aluminum frame screen cover, 2nd floor	0434620						22	1.36		
2,000 BTU boiler (dual-fired)	0981410						23	1.36		
Lavatory, vitreous china	0811500						24	1.22	18	1.96
Sheetrock (stippled) wall	0611200								12	2.63
Steel frame (painted) operable window, 2nd floor	0431220								15	2.25

			-	PH Offic by Comp						
Component Description	CACES ID No.	% of Total	Bra	Bragg		Wood		Devens		rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Sheetrock (stippled) ceiling	0631200								17	2.16
Concrete block (WP/P) exterior, 2nd floor	0415920								19	1.72
Concrete decking- porch	0441100								22	1.42
Floor drain, without bucket	0812200								23	1.33
Concrete block (WP/P) exterior, 1st floor	0415910								24	1.26
Steel frame (painted) operable window, 1st floor	0431210								26	1.04
Steel (w/safety glass) painted exterior door	0421220								27	1.04
Pipe/fittings, ST & CP	0984110								28	1.01

				nity Fire						
Component Description	CACES ID No.	% of Total	Bra	agg_	Wo	ood	Dev	ens/	o	rd
			Rank	% of Total						
Generator, diesel	1281200	12.38	1	28.50						
Built-up roofing	0311100	7.01	6	2.69	2	6.82	2	7.96	2	22.83
Shingles	0311350	5.61	3	6.99	1	7.61	8	3.14		
Wood, finished (multi-coat) exterior, 1st floor	0415F10	3.12	2	7.19						
250 BTU boiler (gas)	0981110	2.76	4	3.10	3	5.56				
2,000 BTU boiler (dual-fired)	0981410	2.61					1	12.99		
2,000 BTU boiler (gas)	0981120	2.52							1	23.00
Battery, secondary dry	1283400	2.18			5	3.90	4	5.87		
Carpet, floor	0629100	2.16			4	3.96	5	5.73		
Sheetrock (unstippled) ceiling	0631300	1.77	10	2.23	14	2.05	18	1.37		
Fluorescent lighting fixture	1131300	1.75			13	2.18	6	3.61	16	1.40
Solid core (painted) wood interior door	0533210	1.63	11	2.12			22	1.14	8	2.32
Vinyl asbestos tile flooring	062A200	1.59	7	2.65	23	1.32				
250 BTU boiler (oil)	0981310	1.59					3	7.89		
Concrete block (painted) interior wall	0612400	1.55	15	1.28	25	1.19	14	1.96	7	2.67
Wood single roll- up doors	0427500	1.49	9	2.45			12	2.12		

				inity Fire	Station conent					
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Devens		o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Distribution, gutters, pipe	0822100	1.49			19	1.70	21	1.32	4	4.70
Thermostats/ pneumatics	09E1110	1.35			27	1.10	9	2.93	20	1.09
Drinking fountain	0811H00	1.33	14	1.51	30	1.03	19	1.36	17	1.24
Board (finished) interior wall	0615700	1.31	8	2.58		-				
25 KBTU house furnace (oil)	0981D10	1.27	5	2.92						
Metal ceiling (painted)	0636100	1.20	-		18	1.71	10	2.52		
Motor starter, 0-600V	1123600	1.17			12	2.25			9	2.08
Incandescent lighting fixture	1131100	1.12	16	1.25	21	1.47			15	1.68
Wood frame (paint) operable window, 1st floor	0431310	1.09	13	1.56			16	1.60		
Concrete, unfinished flooring	062B100	1.01	17	1.17					11	1.95
Metal Roofing	0311360		12	1.86						
Switchgear, indoor below 600V	1117100		18	1.06			23	1.05		1
Radiator, finned wall 10' section	0981H00		19	1.04			20	1.35		
Gas compressor > 15 HP	0831140		20	1.03						
1 HP compressed air plumbing system	0831110				6	3.74				

				nity Fire by Comp						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Aluminum siding exterior, 2nd floor	0415I20				7	3.17				
Sheetrock (unstippled) wall	0611300				8	2.98	24	1.04		
2-ton window A/C	0991220				9	2.41				
Aluminum siding exterior, 1st floor	0415I10				10	2.38		-		
Expansion chamber, CW	0813700				11	2.34				
Steel single roll-up door	0427100				15	1.85				
25 KBTU house furnace (gas)	0981C10				16	1.74				
Switchgear, indoor 0-600V	1115100				17	1.73				
1-ton window A/C	0991210				20	1.68	13	1.99		
Bituminous flooring	062D100				22	1.35	_			
Contactors and relays	1124000				24	1.25				
Safety switch, enclosed	1122100		<u>,,_,</u> _		26	1.11	:			
LPG storage tank, 1,000-gal	0931100				28	1.10				
1,200 CFM unit heater	09A1D20				29	1.04			14	1.73
100 KBTU house furnace (gas)	0981C20				31	1.02				
Ceramic tile wall	0612800				32	1.02				
Pipe insulation	0984140						7	3.26		

				inity Fire						
Component Description	CACES % of ID No. Total Bragg Wood Devens							ens ens	o	rđ
			Rank	% of Total						
400 CFM unit heater	09A1D10						11	2.40		
Gas compressor > 1/2 HP	0831130						15	1.70		
Radiator, baseboard 10' section	0981G00						17	1.52		
Hot water heater, gas/oil 75 gal	0814E00						25	1.02	12	1.91
Concrete exterior, 1st floor	0415A10								3	5.27
Switchgear, indoor above 600V	1117200								5	3.72
Ceramic trimming (interior)	0561400								6	2.95
Pipe & fittings, waste & vent	0812100								10	2.04
Aluminum operable windows, 1st floor	0431110								13	1.75
Pipe & fittings, copper HW	0814200								18	1.18
Pipe & fittings, copper CW	0813200								19	1.12
Receptacle and plug	1127200								21	1.04

### **Chapel Center Facilities** Cost By Component Component **CACES** % of ID No. Description Total Bragg Wood Devens Ord % of % of % of % of Rank Total Rank **Total** Rank Total Rank Total Carpet, floor 0629100 10.81 13.81 1 6.34 1 9.39 1 20.13 1 Shingles 0311350 5.61 3 5.56 3 4.58 4 5.33 2 9 Built-up roofing 0311100 4.14 6.05 2.45 7 4.45 2 12.12 Concrete block 0612400 2.22 17 1.60 20 1.48 6 4.55 13 1.83 (painted) wall Vinyl asbestos tile 062A200 2.14 18 1.51 12 2.22 11 2.77 9 3.44 flooring Transformer, 1114100 2.01 2 4.62 3 7.91 liquid filled above 600V 4 Hollow core 0533110 1.99 4.36 (painted) wood interior door 0533210 2.87 7 Solid core 1.86 5 16 1.72 4.15 (painted) wood interior door 09C1130 Exhaust fan, 1.85 2 8.42 10,000 CFM Fluorescent 1131300 1.78 25 1.05 10 2.42 13 2.03 12 2.22 lighting fixture 0991450 6 4.09 Chiller-air cool 1.75 recip, 10-ton Thermostats/ 09E1110 1.92 7 1.69 11 2.63 pneumatics Pipe insulation 0984140 1.68 3 7.11 250 BTU boiler 0981310 1.77 4 3.01 1.68 16 (oil) 0614800 Carpeted interior 1.63 4.16 5 wall Aluminum siding, 0415I20 1.87 8 2.58 1.57 13

2nd floor

				Center l By Com			_			
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Aluminum siding, 1st floor	0415110	1.54	9	2.17	13	2.10				
Wood louvered interior doors	0534230	1.39					5	4.62		
Distribution, gutters, pipe	0822100	1.36	12	1.88			18	1.45	14	1.77
Sheetrock (unstippled) wall	0611300	1.36	19	1.50	19	1.49	19	1.30		
Wood, finished (multi-coat) exterior, 1st floor	0415F10	1.34	7	3.42						
Wood finished ceiling	0635100	1.32	15	1.78	23	1.17				
Motor starter, 0-600V	1123600	1.32			14	2.09	20	1.27	11	2.99
2,000 BTU boiler (dual-fired)	0981410	1.24					9	3.71	4	6.65
2,000 BTU boiler (oil)	0981320	1.17			22	1.19	10	3.55		
Radiator, finned wall 10' section	0981H00	1.10					8	4.14		
Incandescent lighting fixture	1131100	1.09			İ	-	14	1.80	16	1.52
Chiller-air cool recip. 5-ton	0991440	1.05			6	2.69				
10,000 CFM single-zone draw thru	09A1C20	1.05	8	2.38						
5 tons A/C DX packaged	0991110		10	2.12						
200 CFM 2-pipe fan coil unit	09A1910		14	1.82						

				Center I By Com						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
20 tons chillers ACH recip.	0991410		20	1.45						
Plaster wall	0611100		21	1.36						
6,500 CFM single zone draw thru	09A1C10		22	1.30						
6,500 CFM multizone unit	09A1110		23	1.20						
Safety switch, enclosed	1122100		24	1.20	! ! !					_
Linoleum flooring	062A100		26	1.04			<u></u>			
1,200 CRM 2-pipe fan coil unit	09A1940				11	2.37				
25,000 CFM single-zone draw thru	09A1C30				15	1.91				
20 tons chillers WCH recip.	0991510				16	1.80				
100 tons chillers hermetic cent.	0991610				17	1.71		}		
Battery, secondary dry	1283400				18	1.67				
Single-zone draw thru 2,500 CFM	09A1C60				21	1.45				
25,000 CFM multi-zone unit	09A1130				24	1.13				
Sheetrock (unstippled) ceilling	0631300				25	1.10	15	1.75		
Damper controller- electrical	09E1210				26	1.01				

			Chapel Cost	Center I By Com	Facilities conent					
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	vens	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood frame (painted) fixed window, 2nd floor	0432320						12	2.17		
Exhaust fan 25,000 CFM	09C1140						17	1.71		
Gate valve, 3/8"-1 1/2"	0984210						21	1.13		
Aluminum operable windows, 1st floor	0431110						22	1.08		
Aluminum frame storm windows, 1st floor	0434110						23	1.03		
Concrete block (WP/P) exterior, 1st floor	0415910						-		5	5.67
Plaster ceiling	0631100								6	5.28
Radiator, baseboard 10' section	0981G00								8	3.69
Double pane wood frame operable window, 1st floor	0431810								10	3.35
Switchgear, indoor below 600V	1117100								15	1.63
Hot water heater, electric, 300-gal	0814100								17	1.43
Hot water heater, gas/oil, 75-gal	0814E00								18	1.05
Drinking fountain	0811H00								19	1.04

		Į.		ım/Theat by Com	re Facili	ty				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	vens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Built-up roofing	0311100	12.33			1	10.66	2	13.84	1	14.82
Battery, primary wet	1283100	4.45					1	17.41		
2,000 BTU boiler (oil)	0981320	4.12			3	4.87	3	5.41		
50 tons chillers WCH recip.	0991520	3.85	•		2	6.85				
Carpet, floor	0629100	3.46			4	4.66	6	3.30		
Acoustical interior wall tile	0619200	2.76			5	3.77	10	2.50		
2,000 BTU boiler (gas)	0981120	2.73					4	5.22	3	7.61
Shingles	0311350	2.34			9	2.78	8	3.03		
25,000 CFM single-zone draw thru	09A1C30	2.22			10	2.54			5	4.33
Concrete decking- porch	0441100	2.22			7	3.11	15	1.73		
Motor starter, 0-600V	1123600	2.18			8	2.82	16	1.19	18	1.61
Switchgear, indoor below 600V	1117100	2.09			15	2.04	14	1.85	12	2.58
Chiller-air cool recip. 10-ton	0991450	2.06			6	3.67				
6,500 CFM single- zone draw thru	09A1C10	1.89			11	2.23	19	1.14	16	1.88
Transformer, liquid filled above 600V	1114100	1.78			12	2.19			8	3.00
Concrete block (painted) wall	0612400	1.71			20	1.25	11	2.30	13	2.29

		F	Auditoriu Cost	m/Theat by Comp		y				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens/	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Deaerator	098!A10	1.52							2	8.29
Planter coiling	0631100	1.48					7	3.21	7	3.60
Vinyl asbestos tile flooring	062A200	1.40					12	2.12	10	2.79
Duct heaters	1274000	1.34			18	1.72			15	2.06
Pipe insulation	0984140	1.31			. 17	1.91				
Thermostats/ pneumatics	09E1110	1.28			27	1.00			11	2.72
Sheetrock (unstippled) ceiling	0631300	1.25			13	2.13				
100 tons heat rej. system evaporative condenser	0991D20	1.17			14	2.09				
Wood louvers in frame, 1st floor	0433110	1.11							4	6.05
Aluminum siding, 2nd floor	0415120	1.11			16	1.97				
Concrete exterior, 3rd+ floor	0415A30	1.08			21	1.24			14	2.09
50 tons chillers ACH recip.	0991420	1.02					5	4.01		
Incandescent lighting system	1131100	1.00					18	1.14	22	1.12
Aluminum siding, 1st floor	0415110				19	1.41				
Sheetrock (unstippled) wall	0611300				22	1.18				
Ceramic tile wall	0612800				23	1.17				
Hollow core (painted) wood interior door	0531110				24	1.09	17	1.16		

			Auditoriu Cost	m/Theat by Com		ty				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens ens	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Simplex air compressor 1 HP	09E1310				25	1.07				
Maple floor	0625200				26	1.01	20	1.05		
10,000 CFM multi-zone unit	09A1120						9	2.63		
Stucco interior wall	0611400						13	2.11		
Battery, secondary dry	1283400						21	1.05		
Exhaust fan 25,000 CFM	09C1140								6	3.72
Hot water heater, gas/oil 1,000 GPH rec.	0814F00								9	2.84
Aluminum (plain & anodized) interior door	0531310								17	1.80
l HP compressed air plumbing system	0831110								19	1.48
Wood parquetry flooring	0625100								20	1.27
Exhaust fan 1,000 CFM	09C1120								21	1.19
Circulation pump 5 HP	0984420								23	1.03
Emergency lighting fixture	1131500								24	1.03
Safety switch, enclosed	1122100								25	1.02

				wling Ce by Com						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Built-up roofing	0311100	15.42	1	27.67					1	26.84
Metal roofing	0311360	5.91					1	34.50		
Wood parquetry flooring	0625100	4.48			4	7.11	2	8.36	2	8.18
Shingles	0311350	3.89			1	14.26				
Fluorescent lighting fixture	1131300	3.81	<u>.</u> 6	3.55	10	3.63	8	2.71	5	6.36
Carpet, floor	0629100	3.62	3	6.60			6	3.58		
6,500 CFM multizone unit	09A1110	3.31	2	7.89						
50 tons chillers WCH recip.	0991520	2.68	4	6.38						
Maple floor	0625200	2.67	5	6.36						
Vinyl asbestos tile flooring	062A200	2.62	10	1.95	9	3.64	10	1.98	8	3.44
Switchgear, indoor 600V	1117100	2.18	7	3.34			14	1.29	10	3.01
Acoustical tile (dropped) ceiling	0632200	2.12	9	2.60	14	1.62	12	1.86	12	1.98
Steel interior wall (painted)	0616300	2.10	12	1.70	6	5.10				
100 tons chillers ACH recip.	0991430	2.03			2	7.48				
50,000 CFM multi-zone unit	09A1140	2.03			3	7.46				
Deaerator	0981A10	1.42			5	5.23				
Battery, secondary dry	1283400	1.32	8	3.14						
2,000 BTU boiler (oil)	0981320	1.32			7	4.85				

				wling Ce by Com						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens/	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Motor starter, 0-600V	1123600	1.24	14	1.38			20	1.07	11	2.96
Expansion chamber, CW	0813700	1.15			8	4.24				
Concrete block (painted) interior wall	0612400	1.12	11	1.71			22	1.01		
Aluminum siding, 1st floor	0415110	1.09			-				3	7.94
20 tons A/C DX packaged	0991120	1.07							4	7.80
Dishwasher	0844110	1.06	17	1.20	17	1.26	15	1.27		
Thermostats/ pneumatics	09E1110	1.06	15	1.35	16	1.41				
Transformer, liquid-filled above 600V	1114100	1.05			12	1.93			7	3.85
50 tons heat rej. system air cooled cond.	0991B30		13	1.58						
Safety switch, enclosed	1122100		16	1.27			17	1.17		
Drinking founatin	0811H00		18	1.00					13	1.09
Pipe insulation	0984140				11	2.07				
Switchgear, main frame 1200A	1113100				13	1.87			14	1.05
400 CFM unit heater	09A1D10				15	1.62				
Expansion chamber, HW	0814700				18	1.23				

				wling Ce by Comp						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Lavatory, vitreous china	0811500				19	1.05				
Incandescent lighting fixture	1131100				20	1.05				
Steel (painted) exterior, 1st floor	0415L10						3	4.50		
200 KBTU house furnace (gas)	0981C30						4	3.82		
20 tons chillers ACH recip.	0991410						5	3.69		
6,500 CFM single- zone draw thru	09A1C10						7	3.47		
Chiller-air cool recip. 10-ton	0991450						9	2.71		
Battery, primary dry	1283200						11	1.97		
Steel (painted) exterior, 2nd floor	0415L20			E			13	1.78		
Ceramic tile interior wall	0612800						16	1.23		
Hollow core (painted) wood interior door	0533110						18	1.15		
Exhaust fan 10,000 CFM	09C1130						19	1.12	6	5.84
Hot water heater, electric 120 gal	0814H00						21	1.01		
Sheetrock (stippled) wall	0611200								9	3.25
100 KBTU house furnace (gas)	0981C20								13	1.06

	33333			Support by Comp						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens/	Oi	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Metal roofing	0311360	15.92	1	24.11			<u></u>			
Carpet, floor	0629100	5.87	7	3.65			4	5.48	2	11.90
Shingles	0311350	4.96	12	1.71			2	7.79	1	12.52
Hollow core (painted) wood interior door	0533110	3.60	2	5.46						
Linoleum flooring	062A100	3.09	3	4.68			_		-	
Sheetrock (unstippled) wall	0611300	2.95	6	3.96			8	3.75		
Chiler-air cool recip. 10-ton	0991450	2.93	4	4.43						
Battery, secondary dry	1283400	2.83	5	4.28						
Wood, finished (multi-coat) exterior, 1st floor	0415F10	2.64	10	1.86					6	5.67
Solid core (painted) wood interior door	0533210	2.53	22	1.10			5	4.34	5	5.68
Expansion chamber, C.W.	0813700	2.02							3	8.09
Fluorescent lighting fixture	1131300	2.00	23	1.09			7	4.08	9	3.64
Smoke detector	1221200	1.85	14	1.57			13	2.20	14	2.45
Roll roofing	0311340	1.68	8	2.55						
Sheetrock (stippled) wall	0611200	1.51							4	6.06
Vinyl asbestos tile flooring	062A200	1.48					15	1.64	8	3.66
2,000 BTU boiler (oil)	0981320	1.43					1	15.70		

				Support by Com						
Component Description	CACES ID No.	% of Total	Br	agg	Wo	ood	Des	ens/	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Hot water heater, electric, 120-gal	0814H00	1.39	9	2.10						
Pipe insulation	0984140	1.33				_	3	7.56		
Incandescent lighting fixture	1131100	1.26	11	1.74						
Distribution, gutters, pipe	0822100	1.13	18	1.31						
Single-zone draw thru 2,500 CFM	09A1C60	1.11	13	1.69						
Tankless water closet	0811100	1.06							17	1.60
Drinking fountain	0811H00	1.06	15	1.48						
Plaster ceiling	0631100	1.05							7	4.23
Thermostats/ pneumatics	09E1110	1.05					6	4.14		
Wood frame (painted) operable window, 1st floor	0431310		16	1.38						
Motor starter, 0-600V	1123600		17	1.36						
Carpeted interior wall	0614800		19	1.28						
Wainscot interior wall	0615900		20	1.16						
Formica interior wall	0614100		21	1.11						
Pipe & fittings, waste & vent	0812100		24	1.03						
Wood parquetry flooring	0625100						9	3.24		

# **Child Support Center** Cost by Component Component **CACES** % of Devens Ord ID No. Total Wood Description **Bragg** % of % of % of % of Rank Total Rank **Total** Rank **Total** Rank Total 10 3.16 0984370 Steam trap, F & T < 1" 3.07 11 400 CFM unit 09A1D10 heater 12 3.00 0631300 Sheetrock (unstippled) ceiling 14 1.66 09A1D20 1,200 CFM unit heater 16 1.63 Aluminum frame 0434110 storm windows, 1st floor 0423230 17 1.30 Solid core (safety glass) painted wood exterior door 18 1.28 22 1.16 Lavatory, vitreous 0811500 china 1.24 1.77 19 16 Switchgear, indoor 1117100 below 600V 20 1.07 Vinyl interior wall 0614400 21 1.04 Aluminum frame 0434610 screen cover, 1st floor 22 1.01 0415010 Formica-vinyl exterior, 1st floor 3.00 0814700 10 Expansion chamber, H.W. 2.85 11 0943100 Cast iron radiator 10' section 12 2.59 0941300 Steam regulation valve-2"

Child Support Center Cost by Component										
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Solid core (painted) wood exterior door	0423210								13	2.51
Hot water heater, gas/oil, 75-gal	0814E00								15	2.44
Air separator	09843A0								18	1.43
Brass exterior door closer	0473100								19	1.27
Brass interior lockset	0582100						-		20	1.21
Open head sprinkler head	0844110								21	1.20
Brass interior door closer	0583100								23	1.16
Sink, stainless steel	0811F00							-	24	1.16

Commissary Cost by Component											
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Devens		O	rd	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total	
Roll roofing	0311340	20.84	4	5.28			1	38.69			
Generator, gasoline powered	1281100	8.05	2	17.24			3	7.98			
Chiller-water cool recip. 10-ton	0991540	5.55	1	23.88							
Wood finished ceiling	0635100	5.42					2	10.69			
Built-up roofing	0311100	4.92	5	4.10	1	15.22					
Fluorescent lighting fixture	1131300	3.27			5	4.42	6	3.86			
Concrete, finished flooring	062B200	3.12	17	1.13		}	4	5.65			
Chiller-air cool recip. 5-ton	0991440	2.99	8	2.42	3	9.29					
Steel louvers with frame, 1st floor	0433310	2.43			2	9.31					
Single-zone draw thru 1,000 CFM	09A1C50	.234	3	10.88							
6,500 CFM single- zone draw thru	09A1C10	2.17					5	3.90			
Vinyl asbestos tile flooring	062A200	1.91	7	3.16	4	4.50					
Motor starter, 0-600V	1123600	1.68			6	4.35					
Steel interior wall (painted)	0616300	1.60					7	3.15			
Open head sprinkler head	0844110	1.50			T.		8	2.29			
Switchgear, indoor below 600V	1117100	1.35	12	1.52	16	1.52	14	1.18	_		

## Commissary Cost by Component Component **CACES** % of Description **Devens** Ord ID No. **Total** Wood **Bragg** % of % of % of % of Rank Total Rank Total Rank **Total** Rank Total 0441100 1.07 10 1.82 Concrete deckingporch 09A1D20 1.07 19 1.02 12 1.36 1,200 CFM unit heater Thermostats/ 09E1110 1.05 17 1.40 15 1.13 pneumatics 1.34 Safety switch, 1122100 1.04 13 enclosed 2,000 BTU boiler 0981120 6 3.22 (gas) 9 09A1C30 1.90 25,000 CFM single-zone draw thru 10 1.89 250W HID 1131410 mercury vapor fixture 20 tons chillers 0991410 11 1.76 ACH recip. 0991C20 13 1.44 100 tons heat rej. system cooling tower 0636100 14 1.34 14 1.88 Metal ceiling (painted) Concrete, finished 061A200 15 1.26 interior wall 9 Chiller-air cool 0991450 16 1.26 2.31 recip. 10-ton Pipe insulation 0984140 18 1.13 20 1.31 7 2.93 25,000 CFM 09A1130 multi-zone unit 8 Battery, secondary 1283400 2.78

dry

Commissary Cost by Component										
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
50 tons chillers WCH recip.	0991520				10	2.30				
Safety switch, fused 3P	1122430				11	2.12				
Damper controller- electrical	09E1210				12	2.02				
250 BTU boiler (oil)	0981310			•	13	1.95				
Feedwater supply	0981910				15	1.72				
1 HP simplex air compressor	09E1310				18	1.34				
6,500 CFM multi- zone unti	09A1110				19	1.34				
Transformer, liquid-filled above 600V	1114100				21	1.23				
Switchgear, main frame 1200A	1131100			_	22	1.05			-	
Steel flooring	0626100						9	1.94		
Exhaust fan 10,000 CFM	09C1130						11	1.78		
Clay brick interior wall	0612500						16	1.04		

### Art & Crafts Center **Cost By Component** Component CACES % of Description ID No. Total Wood **Devens Bragg** Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total 0311100 14.65 11.15 16.75 17.56 Built-up roofing 1 1 22 0311360 4.94 11.82 1.15 Metal roofing 1 Concrete block 0612400 8 3.71 9 3.69 6 5.65 4.25 (painted) interior wall 250 BTU boiler 0981110 4.03 6 4.42 2 8.98 (gas) 7 3.53 8 3.99 Vinyl asbestos tile 062A200 14 1.66 5.59 flooring 100 tons chillers 0991430 3.47 3 8.93 ACH recip Fluorescent 1131300 3.36 7 4.44 4 5.43 lighting fixture 6,500 CFM multi-09A1110 2.90 13 2.51 5 6.41 zone unit 2.88 9 Switchgear, indoor 1117100 12 2.73 12 2.42 3.63 below 600V 0981A10 2 2.51 8.32 Deaerator Battery, secondary 1283400 2.42 16 1.50 15 1.55 8 4.55 dry 20 tons chillers 0991410 2.38 3 7.95 ACH recip 2,000 BTU boiler 0981410 2.35 4 6.04 (dual-fired) 250W HID 1131410 2.24 5 5.75 mercury vapor fixture 0636100 2.23 Metal ceiling 4 6.41 (painted)

5.58

25,000 CFM

multi-zone unit

09A1130

2.17

6

## Art & Crafts Center Cost By Component **CACES** Component % of Description ID No. Total Wood Bragg Devens Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total 0533210 2.15 10 3.14 3.08 Solid core 11 (painted) wood interior door 6,500 CFM single-09A1C10 2.10 17 1.37 5 5.20 zone draw thru 50 tons chillers 0991420 2.02 3 6.70 ACH recip 09C1120 9 Exhaust fan 1,000 1.63 3.30 21 1.17 **CFM** Motor starter, 1123600 1.55 10 3.35 0-600V Drinking fountain 0811H00 1.40 18 1.27 17 1.28 13 1.74 7 Feedwater supply 0981910 1.30 4.33 5 Incandescent 1131100 1.29 10 3.17 5.08 lighting fixture Concrete exterior, 0415A20 2.89 1.12 11 2nd floor 1116200 1.07 1.61 Transformer, dry 15 16 1.46 below 15,000V Pipe insulation 0984140 1.04 12 2.51 062B100 Concrete. 18 1.26 unfinished flooring 0632200 Acoustical tile 19 1.17 18 1.26 (dropped) ceiling 09E1310 Simplex air-20 1.16 compressor, 1 HP Transformer, 1114100 11 3.08 liquid-filled, above 600V 0561400 2.04

13

Ceramic trimming,

interior

# Art & Crafts Center Cost By Component Component **CACES** % of Description Ord ID No. Total Wood **Devens** Bragg % of $% \frac{1}{2} = \frac{1}{2}$ % of % of Rank Total Total Rank Total Rank Total Rank 1122430 14 1.63 Safety switch, fused 3P 19 1.20 Steel (painted) 0531110 interior door Safety switch, 1122100 20 1.18 15 1.18 enclosed Synthetic veneer-0415R20 23 1.02 plaster exterior, 2nd floor 1.01 0814H00 24 Hot water heater, electric, 120-gal 16 1.07 Sink, stainless 0811F00 25 1.00 steel 14 1.30 Hot water heater, 0814E00 gas/oil, 75-gal Thermostats/ 09E1110 17 1.02 pneumatics Wood, finished 0415F10 1 34.26 (multi-coat) exterior, 1st floor 2 19.43 Shingled 0311350 3 15.11 0615700 Board (finished) interior wall 4 11.58 Wood, unfinished 0635200

ceiling

Continuing Education Facility Cost By Component										
Component Description	CACES ID No.	% of Total	Bragg		Wood		Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Shingles	0311350	10.91					3	5.67	1	19.86
Wood unfinished ceiling	0635200	6.64			12	1.79			2	13.54
1,200 CFM unit heater	09A1D20	5.62							3	12.04
Fluorescent lighting fixture	1131300	5.36	-		3	7.84	10	2.25	6	5.96
2,000 BTU boiler (oil)	0981320	4.96					1	17.09		
Solid core (painted) wood ext. door	0423210	4.06							4	8.80
Built-up roofing	0311100	3.51			1	13.93				
250 BTU boiler (oil)	0981310	3.18					2	10.93		
1 H.P.compressed air plumbing system	0831110	2.95							5	6.19
Vinyl asbestos tile flooring	062A200	2.80			5	5.38	4	4.95		
Metal roofing	0311360	2.67			2	10.61				
Thermostats/ pneumatics	CCE1110	2.29			9	2.54			10	3.03
6,500 CFM single-zone draw thru	09A1C10	1.88			4	7.47				
Concrete, unfamished flooring	062B100	1.72							7	3.66
Motor starter, 0-600V	1123600	1.63			18	1.21			12	2.89
Wainscot interior wall	0615900	1.54							8	3.36

Continuing	Education	Facility
Cost B	v Compone	ent

Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	vens	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Sheetrock (unstippled) wall	0611300	1.50			15	1.37	6	3.96		
Sheetrock (stippled) wall	0611200	1.49						_	9	3.26
Radiator, baseboard 10' section	0981G00	1.37			-		5	4.73		
Wood frame (painted) fixed window, 1st floor	0432310	1.35							11	
Transformer, liquid-filled below 600V	1116100	1.29							13	2.82
Hollow core (painted) wood interior door	0533110	1.26								
Distribution, gutters, pipe	0822100	1.20								
10,000 BTU boiler (oil)	0981330	1.00	_		6	3.98				
Concrete block (painted) interior wall	0612400				7	3.11				
2,000 BTU boiler (dual-fired)	0981410				8	2.59				
Solid core (painted) wood interior door	0533210				10	2.19	20	1.22		
Safety switch, fused 1 P	1122410				11	1.92				
Switchgear, indoor below 600V	1117100				13	1.63	19	1.27		

## **Continuing Education Facility** Cost By Component **CACES** % of Component 1D No. Total Wood **Devens** Ord Description **Bragg** % of % of % of % of Total Rank Total Rank Total Rank Total Rank 14 1.47 4.000 CFM unit 09A1D30 heater Concrete, finished 062B200 16 1.35 flooring 09A1930 17 1.33 600 CFM 2-pipe fan coil unit 0415110 19 Aluminum siding, 1.08 1st floor 0615400 20 1.03 Timber (unfinished) interior wall 0431320 7 2.77 Wood frame (painted) operable window, 2nd floor 0434120 2.66 Aluminum frame storm windows, 2nd floor 9 2.49 Formica interior 0614100 wall 0984140 11 2.19 Pipe insulation 12 0434620 1.78 Aluminum frame screen cover, 2nd floor Wood trimming, 0561100 13 1.78 interior Sheetrock 0631300 14 1.66 (unstippled) ceiling Solid core (safety 0533230 15 1.52 glass) painted wood interior door

16

1.49

Formica-vinyl

exterior, 2nd floor

0415020

## **Continuing Education Facility** Cost By Component Component **CACES** % of Wood **Devens** Ord Description ID No. Total **Bragg** % of % of % of % of Total Rank Total Rank Total Rank Total Rank Lavatory, iron, 0811400 17 1.48 enamel 0434110 18 1.45 Aluminum frame storm windows, 1st floor 0423230 21 1.20 Solid core (safety glass) painted wood exterior drive Aluminum frame 0434610 22 1.11 screen cover, 1st floor 1.08 0812200 23 Floor drain. without bucket 24 1.08 Drinking fountain 0811H00 25 Wood frame 0431310 1.06 (painted) operable window, 1st floor 0629100 1.01 Carpet, floor 26

				al Fitness by Com						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	o	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Steel flooring	0626100	17.02	1	36.58						
Built-up roofing	0311100	11.20	2	10.55	1	16.54	3	6.18	1	11.04
Metal ceiling (painted)	0636100	2.99	4	2.39	3	4.94	4	5.57		
Roll roofing	0311340	2.96					2	6.58	2	10.58
Ceramic tile interior wall	0612800	2.92	3	3.47	6	3.82			10	2.16
Concrete block (painted) interior wall	0612400	2.51	8	1.41	2	6.98	20	1.36	16	1.39
Wood finished ceiling	0635100	1.79			9	2.14	12	1.78	4	5.73
10,000 CFM single-zone draw thru	09A1C20	1.49	14	1.16	4	4.75				
Fluorescent lighting fixture	1131300	1.46	9	1.39	10	1.87	11	1.80		
Shingles	0311350	1.41							5	4.14
Shower, terrazo	0811900	1.35							3	5.87
Exhaust fan, 25,000 CFM	09C1140	1.31	6	1.65			16	1.48	24	1.14
Exhaust fan, 10,000 CFM	09C1130	1.26	5	1.70					11	1.97
Metal roofing	0311360	1.23					1	8.30		
Maple flooring	0625200	1.18			5	3.91	17	1.43		
2,000 BTU boiler (dual-fired)	0981410	1.15			8	2.34	13	1.61		
Switchgear, indoor below 600V	1117100	1.07	13	1.19	18	1.16	21	1.11		

				al Fitness by Comp						<del></del>
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	юd	Dev	ens ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood parquetry flooring	∪625100	1.06	10	1.34	17	1.17	18	1.40		
Rubber tile flooring	062A300			7	1.56					
H.P. 250W sodium fixture	1131610		11	1.29			22	1.09		
250W HID metal halide fixture	1131420		12	1.20			19	1.38		
Concrete, finished interior wall	061A200	·	15	1.10						
25,000 CFM single-zone draw thru	09A1C30				7	2.97				
Steel (painted) exterior, 2nd floor	0415L20				11	1.74				
Battery, secondary wet	1283300				12	1.64				
Pipe insulation	0984140				13	1.43	7	3.03		
Carpet, floor	0629100				14	1.37	9	2.06		
Motor starter, 0-600V	1123600				15	1.23			17	1.38
Deaerator	0981A10				16	1.21				
Aluminum siding, 2nd floor	0415120				19	1.09				
Solid core (painted) wood interior door	0533210				20	1.07				
Incandescent lighting fixture	1131100				21	1.06				
Damper controller- electrical	09E1210		-		22	1.06				

## **Physical Fitness Center** Cost by Component **CACES** % of Component **Total** Wood **Devens** Ord ID No. **Bragg** Description % of % of % of % of **Total** Rank **Total** Rank Total Rank Rank **Total** 0615500 23 1.05 Panel (solid) wood interior wall 1.00 Aluminum siding, 0415I10 24 1st floor Fiberglass rigid, 0311370 5 4.80 steep roof Battery, primary 1283100 6 3.29 wet 6,500 CFM single-09A1C10 8 2.39 zone draw thru Aluminum louvers 0433210 10 1.94 in frame, 1st floor 2,000 BTU boiler 0981320 14 1.54 (oil) 2,000 BTU boiler 0981120 15 1.48 8 3.31 (gas) 0433310 6 3.73 Steel louvers in frame, 1st floor Wood, finished 0415F10 7 3.59 (multi-coat) exterior, 1st floor 0432320 9 2.66 Wood frame (painted) fixed window, 2nd floor 6,500 CFM multi-09A1110 12 1.90 zone unit Ceramic tile 0622100 13 1.53 flooring 0441100 14 1.41 Concrete deckingporch Board (finished) 0615700 15 1.41 interior wall

				al Fitness by Comp						
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Devens		Ord	
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Aluminum sliding (pl & an) exterior door	0421130				1				18	1.36
Wood louvers in frame, 1st floor	0433110								19	1.33
4,000 CFM unit heater	09A1D30								20	1.32
250 BTU boiler (gas)	0981110								21	1.28
Hot water heater, gas/oil, 1,000 GPH recovery	0814F0C								22	1.28
Concrete block (WP/P) exterior wall, 1st floor	0415910								23	1.16
250W HID mercury vapor fixture	1131410								25	1.04

		*		Housing	g Facilitie onent	es				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens/	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Carpet, floor	0629100	8.57	1	12.70	9	3.20	7	4.39	2	11.25
Battery, secondary wet	1283300	7.65			1	20.54	2	8.53		
Sheetrock (unstippled) ceiling	0631300	5.44	2	8.65	12	2.00	10	3.13		
Shingles	0311350	4.21	14	1.77	2	6.54	4	5.40	3	10.82
Built-up roofing	0311100	3.30	3	6.53						
Sheetrock (unstippled) wall	0611300	3.19	11	2.21	4	3.95	3	6.37		
Hollow core (painted) wood interior door	0533110	3.09	6	3.96	19	1.14	5	4.69	8	2.98
400 CFM 2-pipe fan coil unit	09A1920	2.61	4	5.14						
Solid core (painted) wood interior door	0533210	2.28			8	3.51	8	4.17	6	4.86
Transformer, liquid-filled above 600V	1114100	2.18	5	4.31						
Deaerator	0981 <b>A10</b>	1.73	22	1.17	6	3.53				
2,000 BTU boiler (dual-fired)	0981410	1.71	7	3.38						_
Thermostats/ pneumatics	09E1110	1.62	10	2.58					10	2.82
Vinyl asbestos tile flooring	062A200	1.61			10	2.90	6	4.42		
Ceramic tile interior wall	0612800	1.47	8	2.70						
250 BTU boiler (oil)	0981310	1.44			3	4.45				

		•		t Housing by Com	g Facilitic	es				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens/	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
100 KBTU house furnace (gas)	0981C20	1.39	26	1.02					1	13.27
1-ton window A/C	0991210	1.38			7	3.52				
50 tons chillers ACH recip.	0991420	1,33	9	2.62						
Lavatory, iron, enamel	0811400	1.32	19	1.46	18	1.16	17	1.74		
Radiator, finned wall 10' section	0981H00	1.18			5	3.61				
2,000 BTU boiler (gas)	0981120	1.10					1	9.32		
Receptacle and plug	1127200	1.08	24	1.07	15	1.22				
Hot water heater, electric, 120-gal	0814H00	1.05	13	1.79						
Incandescent lighting fixture	1131100	1.02	23	1.14			23	1.15	20	1.14
Valve, drain CW	0813600		12	1.91						
Bathtub, cast iron	0811700		15	1.58						
Bathtub, plast c	0811J00		16	1.57						
50 tons chillers WCH recip.	0991520		17	1.48						
Valve, drain HW	0814600		18	1.48						- "
Solid core (painted) wood exterior door	0423210		20	1.44					12	2.09
Switchgear, indoor below 600V	1117100		21	1.37						
20 tons chillers WCH recip.	0991510		25	1.02						

#### **Transient Housing Facilities** Cost by Component **CACES** % of Component ID No. Total Devens Ord Description **Bragg** Wood % of % of % of % of **Total** Total Rank Total Rank Total Rank Rank 0415I10 2.20 11 Alaminum siding, 1st floor 0415I20 13 1.94 Aluminum siding, 2nd floor 2.60 0984140 14 1.74 13 Pipe insulation 1131300 16 1.21 Fluorescent lighting fixture 1115100 17 1.17 Switchgear, indoor, 0-600V 1221500 20 1.02 19 1.52 Heat detector 0814E00 21 1.02 22 1.20 Hot water heater, gas/oil, 75-gal 22 1.00 12 2.77 250 BTU boiler 0981110 (gas) 9 4.03 0431320 Wood frame (painted) operable window, 2nd floor 2.81 Wood trimming, 0561100 11 interior 2.45 Shower, plastic 0811B00 14 2.19 Radiator, cast iron, 0981F00 15 10' section 1.81 Battery, secondary 1283400 16 dry 0811100 18 1.56 Tankless water closet 0415020 20 Formica-vinyl 1.51 exterior, 2nd floor 1.32 9 2.82 Wood frame 0431310 21

(painted) operable window, 1st floor

			Transient Cost	Housing		es				
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens .	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Wood, finished (multi-coat) exterior, 1st floor	0415F10								4	8.26
Hot water heater, gas/oil, 30-gal	0814D00								5	5.97
Sheetrock (stippled) wall	0611200								7	4.02
Aluminum frame screen cover, 1st floor	0434610								11	2.42
Hot water heater, gas/oil, 1000 GPH recovery	0811F00								13	1.88
Board (finished) interior wall	0615700								14	1.86
Exhaust fan, 200 CFM	09C1110								15	1.85
Linoleum flooring	062A100								16	1.57
Pipe fittings, steel/iron (gas)	0912100								17	1.54
Wood louvers in frame, 1st floor	0433110								18	1.47
Pipe and fittings, waste and vent	0812100		_						19	1.22
Wood decking - porch	0441200								21	1.06
Lavatory, vitreous china	0811500								22	1.00

		Con	solidated Cost	Open D By Com		cility				
Component Description	CACES ID No.	% of Total	Br	agg	Wo	ood	Dev	ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Built-up roofing	0311100	10.32	2	6.72	2	10.12			1	25.78
Carpet floor	0629100	8.68	1	11.34	3	7.91				
Battery, secondary wet	1283300	7.63			1	20.97				
Fluorescent lighting fixture	1131300	2.73	4	3.64					5	4.25
6,500 CFM single- zone draw thru	09A1C10	2.20	7	3.16	16	1.59				
Hollow core (painted) wood interior door	0533110	2.17	6	3.32					12	3.06
Chiller-air cool recip 10 tons	0991450	2.14	3	4.18						
Switchgear, indoor below 600V	1117100	1.85	10	2.47	15	1.61				
250 BTU boiler (oil)	0981310	1.84	5	3.59						
2,000 BTU boiler (oil)	0981320	1.81	22	1.15	5	3.37				
100 tons chillers ACH recip.	0991430	1.75			4	4.80				
Ceramic tile interior wall	0612800	1.61	12	2.46						
Shingles	0311350	1.56	8	3.04						
100 tons chillers WCH recip.	0991530	1.51	17	1.44	9	2.10				
Vinyl asbestos tile flooring	062A200	1.42	15	1.66					14	2.87
Stucco exterior, 1st floor	0415C10	1.42	9	2.77						

		Cor	solidated Cost	l Open I By Com		cility				
Component Description	CACES ID No.	% of Total	Br	agg	Wo	ood	Dev	ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Motor starter, 0-600V	1123600	1.37			7	2.14			15	1.97
Deaerator	0981A10	1.34			12	1.81			2	5.47
Stucco exterior, 2nd floor	0415C20	1.26	11	2.47						
50 tons chillers WCH recip.	0991520	1.25	13	2.43						
Concrete block (painted) interior wall	0612400	1.24	20	1.19					8	3.59
Thermostats/ pneumatics	09E1110	1.24	16	1.60						
Solid core (painted) wood interior door	0533210	1.14			10	2.08				
Incandescent lighting fixture	1131100	1.11			14	1.69			16	1.91
Vinyl interior wall	0614400	1.09			6	3.00				
10,000 BTU boiler (gas)	0981130	1.09	14	2.13						
6,500 CFM multizone unit	09A1110	1.03			8	2.14				
Stucco interior wall	0611400		18	1.28						
Simplex air compressor 1 HP	09E1310		19	1.20						
Hot water heater, electric, 120-gal	081 <b>4H</b> 00		21	1.16						
2,000 BTU boiler (gas)	0981120		23	1.12						

		Con		l Open D By Com	ining Fa ponent	cility				
Component Description	CACES ID No.	1		agg	Wo	ood	Dev	ens	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Chiller-air cool recip, 5-ton	0991440		24	1.10						
Sheetrock (unstippled) wall	0611300		25	1.04						
Tile roofing	0311330		26	1.01						
2,500 CFM multizone unit	09A1150		27	1.01						
Vinyl sheet flooring	062A400				11	1.98				
Damper controller- electrical	09E1210				13	1.69				
2,000 BTU boiler (dual-fired)	0981410								3	5.40
Switchgear, indoor above 600V	1117200								4	4.87
Expansion chamber, C.W.	0813700								6	4.13
Exhaust fan, 25,000 CFM	09C1140								7	3.87
Wood parquetry flooring	0625100								9	3.33
Wood louvers in frame, 1st floor	0433110								10	3.28
Concrete decking- porch	0441100								11	3.07
Quarry tile flooring	0622200								13	3.01
Exhaust fan, 50,000 CFM	09C1150								17	1.56

# Consolidated Open Dining Facility Cost By Component

Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	O	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Transformer, liquid-filled below 600V	1116100								18	1.37
Concrete block (WP/P) exterior, 1st floor	0415910								19	1.24
Concrete exterior, 1st floor	0415A10				-				20	1.24
Hot water heater, electric, 300-gal	0814110								21	1.16
Distribution, gutters, pipe	0822100								22	1.03

				by Comp	, onent			<del></del>	,	
Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Dev	ens	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Carpet, floor	0629100	8.62	2	5.94	7	2.84	3	6.43	1	18.62
Built-up rooting	0311100	7.69	1	9.57	1	10.11	1	11.12	11	2.34
Fluorescent lighting fixture	1131300	6.26	4	5.00	2	6.71	4	5.73	3	7.13
Shingles	0311350	5.45	5	4.12	12	1.71	_ 2	6.44	2	10.94
20 tons chillers ACH recip.	0991410	3.98	3	5.60	3	6.16	7	2.81		
Vinyl asbestos tile flooring	062 <b>A</b> 200	3.63	7	2.88	5	3.85	5	5.55	9	3.43
Metal roofing	0311360	2.95			4	5.31			5	5.05
Switchgear, indoor below 600V	1117100	2.84	8	2.84	11	1.74	13	1.88	6	4.33
Wood, finished (multi-coat) exterior 1st floor	0415F10	2.32	13	1.95					4	6.03
6,500 CFM multi- coat unit	09A1110	1.44	10	2.15			16	1.54	20	1.11
Sheetrock (stippled) wall	0611200	1.38							7	4.31
Sheetrock (unstippled) wall	0611300	1.20	23	1.12	9	2.00	10	2.17		
Heat pump 10 tons	09A1E20	1.19			6	3.73				
20 ton chillers WCH recip.	0991510	1.18	6	3.19						
Solid core (painted) wood interior door	0533210	1.13					14	1.82	12	2.16
Safety switch. enclosed	1122100	1,10	21	1.15	16	1.19			19	1.12

Component	CACES	% of	n.		**/		D.			
Description	ID No.	Total	Bra		Wo		Dev	r	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Hollow core (painted) wood interior door	0533110	1.05	9	2.44						
Motor starter, 0-600V	1123600	1.05							10	2.62
Battery, secondary dry	1283400	1.04	14	1.88			11	2.17		-
6,500 CFM single- zone draw thru	09A1C10	1.02	22	1.13	10	1.97				
Sheetrock (stippled) ceiling	0631200	1.00							8	3.56
10,000 CFM single-zone draw thru	09A1C20		11	2.07						
10,000 BTU boiler (gas)	0981130		12	2.06	20	1.02				
50 tons chillers ACH recip.	0991420		15	1.76						
Chiller-air cool recip. 10 ton	0991450		16	1.59						
300 tons chillers hermetic cent.	0991620		17	1.47						
200 KBTU house furnace (oil)	0981D30		18	1.40						
1-ton window A/C	0991210		19	1.30						
Thermostats/ pneumatics	09E1110		20	1.19	18	1.07				
Single-zone draw thru 1,000 CFM	09A1C50		24	1.01						
Chiller-air cool recip. 5 ton	0991440				8	2.39				

Component Description	CACES ID No.	% of Total	Bra	agg	Wo	od	Des	ens	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
2,000 BTU boiler (oil)	0981320				13	1.68				
Metal ceiling (painted)	0636100				14	1.53				
Concrete decking- porch	0441100				15	1.21				
Safety switch fused, 3P	1122430				17	1.10				
Fire alarm control panel	1221600				19	1.05				
2,000 BTU boiler (gas)	0981120						6	3.63		
Metal walk-in interior cooler door	0534320						8	2.80		
Battery, primary dry	1283200						9	2.27		
250 BTU boiler (gas)	0981110						12	2.16		
Sheetrock (unstippled) ceiling	0631300						15	1.78		
Ceramic tile wall	0612800						17	1.42	17	1.25
Exhaust fan 10,000 CFM	09C1130						18	1.33		
Steel flooring	0626100						19	1.29		
Quarry tile flooring	0622200						20	1.26		
Concrete block (WP/P) exterior, 1st floor	0415910						21	1.16		

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Component Description	CACES ID No.	% of Total	Bra	agg	Wo	ood	Dev	ens	0	rd
			Rank	% of Total	Rank	% of Total	Rank	% of Total	Rank	% of Total
Pipe insulation	0984140						22	1.15		
Distribution, gutters, pipe	0822100								13	1.76
Wood frame (painted) operable window, 1st floor	0431310								14	1.48
100 KBTU house furnace (gas)	0981C20								15	1.41
Wood louver in frame, 1st floor	0433110								16	1.29
Vinyl interior wall	0614400								18	1.23
Circuit breaker, fixed, 0-599V	1122330								21	1.03

APPENDIX M:

PERCENTAGE OF MAINTENANCE COST BY HIGH COST TASKS FOR ALL BUILDINGS

F4c CODE : 0000000

120 YEARS SUMMARY

TOTAL

CACES 1D	TASK DESCRIPTION	DOLLAR AMOUNT	PERCENT OF TOTA
0000000	TOTAL DOLLAR AMOUNT FOR YEARS	6780304000.	
0611304 062A202	REFINISH SHEETROCK(UNSTPLD)WAL REPLACE VINYL ASBESTOS TILE FL	244623500. 164918900.	3.61
	REPLACE CARPET REPAJR HOLLOW CORE PAINTED INT	118746400.	5.T.
	PREVENT MAINT CHILLER-AIR COOL REPLACE SUITCHGEAR INDOOR BE	114455600.	1.69
	REFINISH SHEETROCK (UNSTIPPLED)	93145340.	1.37
	MEMBRANE REMOVAL & REPLACEMI.8 PREVENTIVE MAINTENANCE	88673480.	
	REPLACE FLUORESCENT LIGHTING F	87981810.	1.30
	REMOVAL AND REPLACEMENT OF SHI	81867270.	1.21
	REFINISH CONCRETE BLOCK(PAINTO	78968640.	1.16 7.16
	PLACE NEW MEMBRANE OVER EXSTG.	71341270.	1.05
	DEBRIS REMOVAL-HAND & VIS. INSP	71218750.	1.05
	REFINISH PLASTER WALL FINISH	68250170.	20.
	REPLACE TILE WALL FINISHS	63785100.	76.
	REPLACE UNIT : DISMENDIER	58758240.	8. 8.
	PREV MAINT . GAS HOUSE FURNACE	57116090.	2.
	REPLACE EXHAUST FAN 10000 CFM	52681300.	8,2
	PREVENTIVE MAINT. EXHAUST FAN	48679790.	22.
	REPLACE HOLLOW CORE PUTD. INTER	48492320.	2.5
	FLASHING REPAIRS - BUILIUP ROOMINDO MEMBOANE DEDAIDS - BILLI	47694130.	5.8
	REPLACE CHILLER-CHILLER-AIR CO	46482400.	. %.
	FLASHING REPAIRS - SHINGLED RO	45706930.	29.
	REFINISH PLASTER CEILING FINIS	44518730.	8.%
	REPLACE PIPE OR GUTTER	44315110.	.65
	REPLACE WOOD (UNFINISHED) CEILIN	43665100.	<b>4</b> .2
	REPLACE GAS HOUSE FURNACE 100	42345310.	59.
	REPLACE PIPE & FITTINGS	40183930.	6 <u>5</u> .
	REFLACE WOOD PARQUEIRY FLOOR REFLAISH ALIMINIUM PANEL CELLI	39274300.	yc. 88.
	REPLACE BROKEN PIPE INSULATION	38937360.	15:
	MAINI & REPAIR FLOORESCENT LIG	37457840.	8.5.5 8.5.5
	REPLACE NOT WATER HEATER, GAS/	37268210.	
	REPLACE LINOLEUM FLOOR DEPAID SOUTH CORE LOON DAINT	37008080. 36686800.	S. 35
	REPLACE PNEUMATIC THERMOSTAT	35727860.	. <del>.</del> .
	REPLACE INCANDESCENT LIGHTING	35243140.	55.
	MAINT & REPAIR RECEPTACLE AND	34083720.	 
	REPLACE VINYL SHEET FLOORING	33965530.	05.
	REPLACE WIRING DEVICE, SWITCH	31149510.	97.
	CLEAN &SERVICE HO; WATER HTR,G	<b>3</b> 0834020. 30326070.	,45 45
	REPAIR ALUMINIUM (P/A) EXTERIO	29633050.	77
	MEPLACE SWITCHGERY, INDUCK, U. MAINI & REPAIR WIRING DEVICE.	27384370. 27836300.	.43
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REPLACE CRANDC TRIN SOUDO CHILL
REPAIR CAS BOILER WINDOW
REPLACE EXANDL TANK 100
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| INSP/CHK 1/2HP PUMP/HOTOR OPER PREV MAINT - HEAT PUMP 5 TONS REPACK GLAND 'VALVE, NON DRAIN REFIN.RPLC, WOOD FRM.FIX.EXT.WD REPLACE SRAINER FL DRAIM, WIT BRKN.GLS.RPLMT.STEEL FRR(PND)E REPAIR FALLED CIRC BREAKE M.C REFIN REPLACED WOOD SINGLE ROL REPLA E FAUCET WASHER-ALUMINUM REFIN.REPLACED WOOD SINGLE ROL REPAIR CORK TILE WALL FINISH REPLC.STEEL FRM.DBL(PND)SXT.DR INSPECT/CLEAN SHOWER HEAD - EN REPAIR BROKEN PIPE INSULATION - | INSP / CHK PUMP/MOTOR OPER., CHK REPAIR MASONITE PANELS. SEALE REFINISH METAL DECKING EXTERIO REPAIR FERRAZZO TRIH - INTERIO REPAIR PLATE GLASS EXT.1ST FL REFINISH REVAPORATIVE CONDENSE 3 REFINISH REPAIRED PANEL(SOLID) CLEAN FIRE BOX IND FURN GAS/OI REPAIRE ANCH DASHER - PLASTI REPAIR ANC DX PACKAGEN - 20 TO REPAIR MOOD FYAME FI.EST.WOW. REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH ASBESTOS-ACCUST.RTD.T REFINISH REPLACE EYE WASH STATION-EMERG | REPLACE LLECT HOUSE FURNACE-ZU REFINISH STELL LOUVER (FRAME) REPLACE LIGHTNING GROUNDING RO REPLACE LIGHTNING GROUNDING RO REPLACE EVAPORATIVE CONDENSER REPLACE BUSS DUCT, POWER & LIGH REPLACE BUSS DUCT, POWER & LIGH REPLACE BUSS DUCT, POWER & LIGH REPLACE BUSS DUCT, POWER & LIGH REPLACE STELL (SAFETY GLIS) REPLACE BRASS CLOJER - INTERIO REPLACE BRASS CLOJER - INTERIO REPLACE BRASS CLOJER - INTERIO REPLACE BRASS CLOJER - INTERIO REPLACE BRASS CLOJER - INTERIO REPLACE BRASS CLOJER - INTERIO REFIN REPLACE BRASS CLOJER - INTERIO REFIN REPLACE GOMICA CELLISION REPLACE FOWNICA CELLISION REPLACE FOWNICA CELLISION REPLACE FAUCTES, LAVATORY, ALA PREV MAINT MONTHLY - ASH HANDL | REPLACE UNIT VENT - 400 CFM REPLACE UNIT VENT - 400 CFM REPR. WOOD FIN. (WULT.COAT) EXT REFIN. PNTD. CLAY BRICK EXT.WA REPACK GLAND - VALVE, NON DRAI REPACK GLAND - VALVE, NON DRAI REPAIR WO.J FRAME STORM WINDOW REFIN. REPLACEL WOOD FINGGL. CO REFIN. REPLACEL WOOD FINGGL. CO REFINSH WOUGHT FOR RAILING REFINISH WROUGHT RON RAILING REFINISH WROUGHT RON RAILING REFINISH WROUGHT RON RAILING REFINISH CONCRETE BRICK EXT. WALL REPAIR CONCRETE BRICK EXT. WAL REPAIR CONCRETE SLIDING PAINTED REV WAINT EXTER INSO-OIL BIR REPAIR PLASTIC CEILING FINTSH INSTALL NEW VALVE - NON-DRAIN |
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APPENDIX N:

PERCENTAGE OF MAINTENANCE COST BY TASKS FOR ALL BUILDINGS

## ORDERED YEARLY SUMMARY TASK REPORT

| INSTALLATION: USA  | ON: USA  |                  | 10-01-90 14:16:19 |
|--------------------|--|------------------|-------------------|
| F4c copE : 0000000 | 0000000  |                  |                   |
| 120 YEARS SUMMARY  | SUMMARY  |                  |                   |
| CACES 1D           | TASK DESCRIPTION   | DOLLAR AMOUNT    | PERCENT OF TOTAL  |
| 0000000            | TOTAL DOLLAR AMOUNT FOR YEARS  | 6780304000.      |                   |
| 0311101            | DEBRIS REMOVAL-HAND & VIS.INSP<br>MOISTURE INSPECTION OF ROOF BU                               | 71218960.        | 1.05              |
| 0311103<br>0311104 | MINOR MEMBRANE REPAIRS - BUILT<br>MINOR MEMBRANE REPLACEMENT - B                               | 46628880.        | <b>%</b>          |
| 0311105<br>0311106 | FLASHING REPAIRS - BUILTUP ROOPLACE NEW MEMBRANE OVER EXSTG.                                   | 47694130.        | 2.5               |
| 0311107            | MEMBRANE REMOVAL & REPLACEMT.B   | 89071320.        | <br>              |
| 0311212            | MOISTURE INSPECTION - M.B. /TH   | 32567.           | 9.6.              |
| 0311214            | REPAIR MODE BILLMINOUS THE FLASHING BEDAIDS MAD BILLMINOUS TO THE FLASHING BEDAIDS MAD BIT / T | 47155.           | 98                |
| 0311217            | MEMBRANE REPLACEMENT OR REPAIR<br>DEBRIS REMOVAL & VISUAL INSP.                                | 472391.<br>1027. | 5.00              |

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PREV MAINT WEEKLY TOUR-GAS BLR
REPAIR GAS BOILER - 10000 BTU
PREV MAINT CLEAN FIRESY-GAS BLR
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PREV MAINT CLEAN FIRESY-GAS BLR
PREV MAINT CLEAN THEES-CAS BLR
PREV MAINT CLEAN THEES-CAS BLR
PREV MAINT WEEKLY TOUR-GAS BLR
PREV MAINT WEEKLY TOUR-CAS BLR
PREV MAINT WEEKLY TOUR-CAL BLR
PREV MAINT WEEKLY TOUR-CAL BLR
PREV MAINT WEEKLY TOUR-COLL BLR
PREV MAINT MERKY TOUR-OIL BLR
PREV MAINT ANNUAL INSP-OIL BLR
PREV MAINT ANNUAL INSP-OIL BLR
PREV MAINT CLEAN BLRUER - 2000 BTU
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REPAIR STEAM TRAP FAT - 1"
REPAIR BROKEN PIPE FAT - 1"
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REPAIR CIRCULATION PURP 0981021 0981021 0981021 0981031 0981031 0981031 0981031 0981031 0981111 0981111 09811111

REPAIR A/C DX PACKAGED 2

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REPAIR A/C MINDOW - 1 TOW

REPAIR A/C MINDOW - 1 TOW

REPAIR A/C MINDOW - 2 TOWS

REPAIR A/C DX MOUNT 5 TOWS

REPAIR HERNETT CHILLER - 20 TO

REPAIR HERNETT CHILLER - 100

REPAIR HERNETT CHILLER - 100

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REPLACE COCLING TOWER - 300 TON
REPLACE COCLING TOWER - 900 TON
REPLACE EVAPORATIVE CONDENSER
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REPLACE TO REPLACE CIRCULATION PUMP 1/12-REPLACE CIRCULATION PUMP 5 1/12-REPAIR CIRCULATION PUMP 5 1/12-REPLACE CIRC. PUMP 5 HP. REPLACE MULTI-ZONE UNIT 6500 C REPLACE MULTI-ZONE UNIT 6500 C REPLACE MULTI-ZONE UNIT 10000 C REPLACE MULTI-ZONE UNIT 10000 C REPLACE MULTI-ZONE UNIT 10000 C REPLACE MULTI-ZONE 25,000 CFM U REPLACE MULTI-ZONE UNIT 10000 C REPLACE MULTI-ZONE UNIT 10000 C REPLACE MULTI-ZONE UNIT 10000 C REPLACE MULTI-ZONE UNIT 25000 C 0991842 0991843 09916721 09916

REPLACE UNIT VENT - 1200 CFM
REPLARE SINGLE ZONE DRAW-THRUREPLARE SINGLE ZONE DRAW-THRUREPLARE SINGLE ZONE DRAW-THRUREPLACE UNIT HEATER 4000 CFM
REPLACE UNIT HEATER 4000 CFM
REPLACE UNIT HEATER 4000 CFM
REPLACE UNIT HEATER 8000 CFM
REPLACE HEAT PUMP - 10 TONS
REPLACE HEAT PUMP - 10 TONS
REPLACE HEAT PUMP - 25 TONS
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PERCENTAGE OF MAINTENANCE CGST BY HIGH COST TASKS FOR FUNCTIONAL USE GRGUPS

|   |                 |               | All Build | ings - Co     | st by Ta | sk            |            |               |      |               |
|---|-----------------|---------------|-----------|---------------|----------|---------------|------------|---------------|------|---------------|
| Task<br>Description                         | CACES<br>ID No. | % of<br>Total | Bra       | agg           | W        | ood           | Dev        | ens .         | O    | rd            |
|   |                 |               | Rank      | % of<br>Total | Rank     | % of<br>Total | Rank       | % of<br>Total | Rank | % of<br>Total |
| Refinish sheetrock (unstpld) wall fin       | 0611304         | 3.61          | 1         | 4.16          | 1        | 4.63          | 2          | 4.41          | 3    | 2.90          |
| Replace vinyl asbestos tile floor           | 062A202         | 2.43          | 3         | 2.51          | 11       | 1.51          | 3          | 2.85          | 2    | 3.14          |
| Replace carpet                              | 0629102         | 1.76          |           |               |          |               | 1          | 4.92          | 4    | 2.85          |
| Repair hollow core (painted) int. dr.       | 05331 .         | 1.75          | 6         | 1.69          | 3        | 2.57          |            |               | 10   | 1.61          |
| PM chiller-air cool recip., 5-ton           | 0991442         | 1.69          | 5         | 1.85          | 2        | 3.55          |            |               |      |               |
| Replace switchgear                          | 1117103         | 1.67          | 4         | 2.12          | 7        | 1.95          |            |               |      |               |
| Refinish sheetrock (unstpld) ceiling        | 0631304         | 1.37          | 9         | 1.35          | 8        | 1.95          | 4          | 2.36          | 13   | 1.46          |
| Built-up roof removal and replacement       | 0311107         | 1.31          | 10        | 1.29          |          |               | 14         | 1.04          | 6    | 2.05          |
| PM heat/cool thermostat                     | 09E1111         | 1.31          | 7         | 1.56          | 12       | 1.51          | . <u>.</u> |               |      |               |
| Repl. fluorescent lighting fixtures         | 1131303         | 1.30          | 11        | 1.20          | 10       | 1.53          | 9          | 1.31          | 16   | 1.33          |
| Repl. elec. hot<br>water heater, 120<br>gal | 0814Н03         | 1.25          | 2         | 2.71          |          |               |            |               |      |               |
| Remove and replace shingled roof            | 0311357         | 1.21          | 12        | 1.19          | 18       | 1.05          | 7          | 1.41          | 15   | 1.41          |
| Refinish concrete block (painted) int. wall | 0612404         | 1.16          | 8         | 1.50          | 15       | 1.16          | 11         | 1.16          |      |               |
| Metal panel roof replacement                | 0311367         | 1.14          | 13        | 1.17          | 6        | 2.15          |            |               |      |               |

|  |                 |               | All Build | ings - Co     | ost by Ta | sk            |      |               |      |               |
|--|-----------------|---------------|-----------|---------------|-----------|---------------|------|---------------|------|---------------|
| Task<br>Description                                | CACES<br>ID No. | % of<br>Total | Bra       | agg           | W         | ood           | Dev  | vens          | O    | rd            |
|  |                 |               | Rank      | % of<br>Total | Rank      | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Built-up roof,<br>place new<br>membrane            | 0311106         | 1.95          | 14        | 1.13          |           |               |      |               | 12   | 1.57          |
| Built-up roof,<br>debris removal and<br>inspection | 0311101         | 1.05          | 17        | 1.06          |           |               |      |               | 9    | 1.67          |
| Shingled roof,<br>minor repairs                    | 0311353         | 1.03          |           |               |           |               | 8    | . 1.40        | 17   | 1.20          |
| Refinish plaster interior walls                    | 0611104         | 1.01          |           |               |           |               |      |               |      |               |
| Replace wood (unfinished) ceiling                  | 0635205         |               | 15        | 1,11          |           |               |      |               |      |               |
| Replace tile walls                                 | 0612805         |               | 16        | 1.07          | 16        | 1.08          |      |               |      |               |
| Replace<br>dishwasher                              | 0841102         |               | 18        | 1.03          | 19        | 1.04          |      |               |      |               |
| Replace linoleum floor                             | 062A102         |               | 19        | 1.02          |           |               |      |               |      |               |
| Replace exhaust fan, 10,000 cfm                    | 09C1133         |               |           |               | 4         | 2.42          |      |               |      |               |
| PM exhaust fan,<br>10,000 cfm                      | 09C1132         |               |           |               | 5         | 2.26          |      |               |      |               |
| Replace vinyl sheet flooring                       | 062A402         |               |           |               | 9         | 1.16          |      |               |      |               |
| Replace chiller-air cool, recp., 5-ton             | 0991443         |               |           |               | 13        | 1.39          |      |               |      |               |
| Refinish aluminum siding, 1st floor                | 0415114         |               |           |               | 14        | 1.17          |      |               |      |               |
| Replace maple floor                                | 0625203         |               |           |               | 17        | 1.06          |      |               |      |               |

|  |                 |               | All Build | ings - Co     | ost by Ta | sk            |      |               |      | · · · · · · · · · · · · · · · · · · · |
|--|-----------------|---------------|-----------|---------------|-----------|---------------|------|---------------|------|---------------------------------------|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Bra       | agg           | W         | ood           | Dev  | ens/          | 0    | rd                                    |
|  |                 |               | Rank      | % of<br>Total | Rank      | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total                         |
| Replace 100<br>KBTU house<br>furnace (oil)           | 0981D23         |               |           |               | 20        | 1.01          |      |               |      |                                       |
| PM weekly tour<br>250 BTU boiler<br>(gas)            | 0981115         |               |           |               |           |               | 5    | 2.00          |      |                                       |
| Refinish wood frame windows, 2nd floor               | 0431324         |               |           |               |           |               | 6    | 1.45          |      | -                                     |
| Place new shingles over existing                     | 0311356         |               |           |               |           |               | 10   | 1.25          | 20   | 1.06                                  |
| PM 100 KBTU<br>house furnace<br>(gas)                | 0981C22         |               |           |               |           |               | 12   | 1.15          | 5    | 2.16                                  |
| Replace broken pipe insulation                       | 0984142         |               |           |               |           |               | 13   | 1.15          |      |                                       |
| Refinish plaster walls                               | 0611104         |               |           |               |           |               |      |               | 1    | 3.73                                  |
| Refin. wood<br>(multi-coat) ext.<br>walls, 1st floor | 0415F14         |               |           |               |           |               |      |               | 7    | 2.05                                  |
| Refinish stucco<br>ext. walls, 1st<br>floor          | 0415C14         |               |           |               |           |               |      |               | 8    | 1.87                                  |
| Replace 100<br>KBTU house<br>furnace (gas)           | 0981C23         |               |           |               |           |               |      |               | 11   | 1.59                                  |
| Refinish plaster ceiling                             | 0631104         |               |           |               |           |               |      |               | 14   | 1.44                                  |
| Clean hot water<br>heater, gas/oil, 30<br>gal        | 0814D02         |               |           |               |           |               |      |               | 18   | 1.20                                  |

|  |                 |               | All Build | lings - Ce    | ost by Ta | ısk           |      |               |      |               |
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| Task<br>Description                      | CACES<br>ID No. | % of<br>Total | Bra       | agg           | W         | ood           | Dev  | ens/          | 0    | rđ            |
|  |                 |               | Rank      | % of<br>Total | Rank      | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Built-up roof,<br>flashing repairs       | 0311105         |               |           |               |           |               |      |               | 19   | 1.09          |
| Replace wood parquetry floor             | 0625103         |               |           |               |           |               |      |               | 21   | 1.05          |
| Built-up roof,<br>minor membrane<br>rep. | 0311103         |               |           |               |           |               |      |               | 22   | 1.04          |

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| Task<br>Description                          | CACES<br>ID No. | % of<br>Total | Bra       | agg           | Wo       | ood           | Dev  | ens ens       | O    | rd            |
|  |                 |               | Rank      | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Total panel replacement-metal roof           | 0311367         | 10.68         | 3         | 2.52          | 1        | 18.15         |      |               |      |               |
| Replace<br>fluorescent light<br>fixture      | 1131303         | 2.91          | 1         | 3.31          | 4        | 2.64          | 3    | 2.67          | 4    | 5.07          |
| Replace vinyl asbestos tile flooring         | 062A202         | 1.82          | 8         | 1.90          | 16       | 1.32          | 2    | 3.88          |      |               |
| Refinish steel (painted) exterior, 1st floor | 0415L14         | 1.77          |           |               | 2        | 3.16          |      |               |      |               |
| Replace shingled roof                        | 0311357         | 1.55          | 4         | 2.43          |          |               | 8    | 1.86          | 5    | 5.01          |
| Replace 200<br>KBTU house<br>furnace (oil)   | 0981D33         | 1.54          |           |               | 3        | 2.65          |      |               |      |               |
| Replace<br>switchgear, indoor,<br>0-600V     | 1115103         | 1.48          | 9         | 1.64          | 10       | 1.56          | 13   | 1.34          |      |               |
| Replace wood<br>(unfinished)<br>ceiling      | 0635205         | 1.45          |           |               | 5        | 2.57          |      |               |      |               |
| Refinish sheetrock (unstippled) wall         | 0611304         | 1.44          | 25        | 1.10          | 15       | 1.34          | 4    | 2.62          |      |               |
| Minor repairs-<br>shingled roof              | 0311353         | 1.35          | 6         | 1.98          |          |               | 7    | 1.98          | 6    | 4.52          |
| M&R fluorescent light fixture                | 1131301         | 1.27          | 15        | 1.37          | 18       | 1.17          | 15   | 1.20          | 14   | 2.31          |
| Refinish steel interior (painted) wall       | 0616304         | 1.23          |           |               | 6        | 2.22          |      |               |      |               |

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|  |                 |               | Rank      | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM heat/cool thermostats                     | 09E1111         | 1.18          |           |               | 19       | 1.12          | 11   | 1.72          | 22   | 1.05          |
| Replace linoleum floor                       | 062A102         | 1.18          | 14        | 1.40          |          |               | 1    | 4.84          |      |               |
| PM weekly tour<br>250 BTU boiler<br>(oil)    | 0981314         | 1.14          | 22        | 1.18          | 13       | 1.39          |      |               |      |               |
| Replace new over existing-shingled roof      | 0311356         | 1.13          | 11        | 1.59          |          |               | 10   | 1.76          | 8    | 3.95          |
| PM 200 KBTU<br>house furnace (oil)           | 0981D32         | 1.12          |           |               | 7        | 1.94          | _    |               |      |               |
| PM battery secondary dry                     | 1283401         | 1.11          |           |               | 8        | 1.64          |      |               |      |               |
| Refinish aluminum siding exterior, 1st floor | 0415114         | 1.10          | 13        | 1.42          | 14       | 1.35          |      |               |      |               |
| Replace drinking fountain                    | 0811H07         | 1.08          |           |               | 12       | 1.50          |      |               |      |               |
| Refinish aluminum panel ceiling              | 0636104         | 1.01          |           |               | 9        | 1.57          |      |               |      |               |
| Replace air compressor                       | 0831113         |               | 2         | 3.30          |          |               |      |               |      |               |
| Refinish wire mesh wall                      | 0616404         |               | 5         | 2.24          |          |               |      |               |      |               |
| Refinish wood supports, exterior porch       | 0443204         |               | 7         | 1.97          |          |               |      |               |      |               |
| PM chiller-air cool. recip. 5-ton            | 0991442         |               | 10        | 1.62          |          |               |      |               |      |               |
| PM single-zone<br>draw thru 1,000<br>CFM     | 09A1C52         |               | 12        | 1.44          |          |               | :    |               |      |               |

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| Task<br>Description                            | CACES<br>ID No. | % of<br>Total | Bra       | agg           | Wo       | ood           | Dev  | ens/          | 0    | rd            |
|  |                 |               | Rank      | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Flashing repairs-<br>shingled roof             | 0311355         |               | 16        | 1.31          |          |               | 14   | 1.22          | 12   | 2.96          |
| Refinish concrete decking exterior porch       | 0441104         |               | 17        | 1.28          |          |               |      |               |      |               |
| Replace single-<br>zone draw thru<br>1,000 CFM | 09A1C54<br>-    |               | 18        | 1.22          |          |               |      |               |      |               |
| M&R duct heaters                               | 1274001         |               | 19        | 1.22          |          |               |      |               |      |               |
| Replace<br>membrane, built-<br>up roof         | 0311107         |               | 20        | 1.21          |          |               | 18   | 1.01          |      |               |
| Replace wood supports exterior porch           | 0443205         |               | 21        | 1.20          |          |               |      |               |      |               |
| Replace single-<br>zone draw thru<br>2,500 CFM | 09A1C64         |               | 23        | 1.18          |          |               |      |               |      |               |
| PM chiller-air cool. recip. 15-ton             | 0991462         |               | 24        | 1.11          |          |               |      |               |      |               |
| Replace 1-ton window A/C                       | 0991213         |               | 26        | 1.09          |          |               |      |               |      |               |
| Put new membrane over existing-shingle         | 0311106         |               | 27        | 1.03          |          |               |      |               |      |               |
| PM 1-ton window<br>A/C                         | 0991212         |               | 28        | 1.03          |          |               |      |               |      |               |
| Flashing<br>replacement-metal<br>roof          | 0311365         |               |           |               | 11       | 1.51          |      |               |      |               |
| Refinish aluminum siding exterior, 2nd floor   | 0415124         |               |           |               | 17       | 1.20          |      |               |      |               |

|   |                 | General (     | Construct | tion Buile    | dings Co | st by Ta      | sk   |               |      |               |
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| Task<br>Description   | CACES<br>ID No. | % of<br>Total | Bra       | agg           | Wo       | ood           | Dev  | ens           | o    | rd            |
|   |                 |               | Rank      | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish aluminum frm. screen, 1st floor                    | 0434614         |               |           |               | 20       | 1.10          |      |               |      |               |
| Replace fire alarm panel                                    | 1221603         |               |           |               | 21       | 1.00          |      |               |      |               |
| Replace<br>switchgear,<br>indoor,below 600V                 | 1117103         |               | -         |               |          |               | 5    | 2.35          |      |               |
| Refinish concrete<br>block (painted)<br>wall                | 0612404         |               |           |               |          |               | 6    | 2.25          |      |               |
| Replace induction<br>furnace gas/oil 500<br>MBU             | 0981M15         |               |           |               |          |               | 9    | 1.80          |      |               |
| Refinish sheetrock (unstippled) ceiling                     | 0631304         |               |           |               |          |               | 12   | 1.48          |      |               |
| PM safety switch, fused 1 P                                 | 1122412         |               |           |               |          |               | 16   | 1.07          |      |               |
| Refinish painted concrete block exterior wall, 1st floor    | 0415914         |               |           |               |          |               | 17   | 1.02          |      |               |
| Replace 2,000<br>BTU boiler (oil)                           | 0981326         |               |           |               |          |               | 19   | 1.00          |      |               |
| Refinish wood<br>finish (multi-coat)<br>exterior, 1st floor | 0414F14         |               |           |               |          |               |      |               | 1    | 15.82         |
| Replace wood (finished) ceiling                             | 0635105         |               |           |               |          |               |      |               | 2    | 6.46          |
| Replace 200<br>KBTU house<br>furnace (gas)                  | 0981C33         |               |           |               |          |               |      |               | 3    | 5.74          |

|  |                 | General (     | Construct | tion Buile    | dings Co | st by Ta      | sk   |               |      |               |
|--|-----------------|---------------|-----------|---------------|----------|---------------|------|---------------|------|---------------|
| Task<br>Description  | CACES<br>ID No. | % of<br>Total | Bra       | agg           | Wo       | ood           | Dev  | ens           | 0    | rd            |
|  |                 |               | Rank      | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish masonite interior wall                                  | 0612904         |               |           |               |          |               |      |               | 7    | 4.43          |
| Refinish wood (finished) ceiling                                 | 0635104         |               |           |               |          |               |      |               | 9    | 3.72          |
| PM 200 KBTU house furnace  | 0981C32         |               |           |               |          |               |      |               | 10   | 3.06          |
| Replace wood<br>frame (painted)<br>exterior window,<br>1st floor | 0431315         |               |           |               |          |               |      |               | 11   | 2.97          |
| Refinish plywood (painted) wall                                  | 0615104         |               |           |               |          |               |      |               | 13   | 2.45          |
| Repair wood (finished) ceiling                                   | 0635102         |               |           |               |          |               |      |               | 15   | 1.97          |
| Debris removal & inspect-shingled roof                           | 0311351         |               |           |               |          |               |      |               | 16   | 1.81          |
| Repair solid core<br>wood painted<br>interior door               | 0533212         |               |           |               |          |               |      |               | 17   | 1.61          |
| Replace solid core (painted) exterior door                       | 0423215         |               |           |               |          |               |      |               | 18   | 1.49          |
| Refinish wood frame (painted) exterior window, 1st floor         | 0431314         |               |           |               |          |               |      |               | 19   | 1.47          |
| Repair 200 KBTU house furnace (gas)                              | 0981C31         |               |           |               |          |               |      |               | 20   | 1.43          |
| Repair solid core<br>(painted) exterior<br>door                  | 0423212         |               |           |               |          |               |      |               | 21   | 1.16          |

|  | -               | Applied       | Instructi | on Build      | ings Cos | t by Tas      | k    |               |      |               |
|--|-----------------|---------------|-----------|---------------|----------|---------------|------|---------------|------|---------------|
| Task Description                             | CACES<br>ID No. | % of<br>Total | Bra       | agg           | Wo       | ood           | Dev  | vens          | o    | rd            |
|  |                 |               | Rank      | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Total panel replacement-metal roof           | 0311367         | 5.77          |           |               | 1        | 13.81         |      |               |      |               |
| Replace carpet                               | 0629102         | 3.27          | 1         | 6.03          |          |               | 1    | 6.77          |      |               |
| Replace fluorescent lighting fixture         | 1131303         | 3.02          | 3         | 3.28          | 4        | 2.53          | 3    | 3.47          |      |               |
| Refinish aluminum panel ceiling              | 0636104         | 2.80          |           |               | 2        | 4.73          |      |               |      |               |
| Replace vinyl<br>asbestos tile<br>flooring   | 062A202         | 2.36          | 8         | 2.71          | 10       | 1.23          | 2    | 3.81          |      |               |
| Refinish steel interior (painted) wall       | 0616304         | 1.96          |           |               | 3        | 3.75          |      |               |      |               |
| Replace broken pipe insulation               | 0984142         | 1.84          |           |               | 5        | 2.47          | 7    | 1.71          |      |               |
| Replace<br>switchgear, indoor<br>below 600V  | 1117103         | 1.63          | 13        | 1.88          |          |               | 4    | 2.54          |      |               |
| Membrane<br>replacement built-<br>up roof    | 0311107         | 1.61          | 2         | 3.73          | 13       | 1.15          | 15   | 1.08          |      |               |
| M&R fluorescent lighting fixture             | 1131301         | 1.33          | 18        | 1.36          | 15       | 1.12          | 10   | 1.55          |      |               |
| Refinish sheetrock (unstippled) wall         | 0611304         | 1.29          | 9         | 2.52          |          |               | 8    | 1.65          |      |               |
| Refinish concrete<br>block (painted)<br>wall | 0612404         | 1.27          |           |               | 8        | 1.70          |      |               |      |               |
| Debris removal & inspection built-up roof    | 0311101         | 1.26          | 7         | 3.06          |          |               |      |               |      |               |

|  |                 | Applied       | Instructi | on Build      | ings Cost | t by Tasl     | k    |               |      |               |
|--|-----------------|---------------|-----------|---------------|-----------|---------------|------|---------------|------|---------------|
| Task Description                                 | CACES<br>ID No. | % of<br>Total | Br        | agg           | Wo        | ood           | Dev  | ens/          | O    | rd            |
|  |                 |               | Rank      | % of<br>Total | Rank      | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| New membrane over existing-BUR                   | 0311106         | 1.24          | 4         | 3.22          | 17        | 1.03          |      |               |      |               |
| Replace aluminum panel ceiling                   | 0636105         | 1.19          |           |               | 6         | 2.03          |      |               |      |               |
| PM heat/cool<br>thermostat                       | 09E1111         | 1.10          |           |               | 16        | 1.09          | 13   | 1.23          |      |               |
| Replace HP 250 watt sodium fixture               | 1131613         | 1.03          |           |               | 7         | 1.95          |      |               | -    |               |
| Replace 50-ton hermetic chiller                  | 0991423         |               | 5         | 3.16          |           |               |      |               |      |               |
| PM 50-ton<br>hermetic chiller                    | 0991422         |               | 6         | 3.07          |           |               |      | _             |      |               |
| Repair 50-ton<br>hermetic chiller                | 0991421         |               | 10        | 2.15          |           |               |      |               |      |               |
| Flashing repairs-<br>built-up roof               | 0311105         |               | 11        | 2.08          |           |               |      |               |      |               |
| Minor membrane repairs-BUR                       | 0311103         |               | 12        | 2.03          |           |               |      |               |      |               |
| Replace ceramic tile wall                        | 0612805         |               | 14        | 1.61          |           |               |      |               |      |               |
| Replace hot water heater                         | 0814H03         |               | 15        | 1.43          |           |               |      |               |      |               |
| Replace single-<br>zone draw thru,<br>10,000 CFM | 09A1C24         |               | 16        | 1.38          |           |               |      |               |      |               |
| Repair hollow core (painted) interior door       | 0533112         |               | 17        | 1.36          |           |               |      |               |      |               |
| Replace linoleum floor                           | 062A102         |               | 19        | 1.27          |           |               |      |               |      |               |

|  |                 | Applied       | Instructi | on Build      | ings Cos | t by Tasi     | k    |               |      |               |
|--|-----------------|---------------|-----------|---------------|----------|---------------|------|---------------|------|---------------|
| Task Description   | CACES<br>ID No. | % of<br>Total | Bra       | agg           | Wo       | ood           | De   | vens          | o    | rd            |
|  |                 |               | Rank      | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM chiller-air coil recip 10-ton                                 | 0991452         |               | 20        | 1.23          |          | 1             |      |               |      |               |
| Repair 25-ton heat pump  | 09A1E31         |               | 21        | 1.21          |          |               |      |               |      |               |
| Refinish acoustical tile wall                                    | 0619204         |               | 22        | 1.09          |          |               |      |               |      |               |
| PM & inspect<br>motor starter,<br>0-600V                         | 1123602         |               |           |               | 9        | 1.62          |      |               |      |               |
| M&R HP 250 watt sodium fixture                                   | 1131611         |               |           |               | 11       | 1.20          |      |               |      |               |
| Replace exhaust fan 25,000 CFM                                   | 09C1143         |               |           |               | 12       | 1,19          |      |               |      |               |
| Flashing replacement-metal roof                                  | 0311365         |               |           |               | 14       | 1.15          |      |               |      |               |
| PM battery,<br>secondary dry                                     | 1283401         |               |           |               |          |               | 5    | 2.45          |      |               |
| Replace rubber tile flooring                                     | 062A302         |               |           |               |          |               | 6    | 2.12          |      |               |
| PM 1-ton window<br>A/C   | 0991212         |               |           |               |          |               | 9    | 1.57          |      |               |
| Replace 1-ton window A/C   | 0991213         |               |           |               |          |               | 11   | 1.50          |      |               |
| Refinish wood<br>frame (painted)<br>exterior window,<br>3+ floor | 0431334         |               |           |               |          |               | 12   | 1.39          |      |               |
| Total roof replace-<br>roll roofing                              | 0311347         |               |           |               |          |               | 14   | 1.22          |      |               |
| Minor repairs-<br>shingled roof                                  | 0311353         |               |           |               |          |               | 16   | 1.07          |      |               |

| Aviation | Unit Maintenance Hangars |  |
|----------|--------------------------|--|
|          | Cost By Task             |  |

|   |                 |               |      | JSC Dy It     |      |               |      |               |                |               |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|----------------|---------------|
| Task<br>Description                                 | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | O <sub>1</sub> | rd            |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank           | % of<br>Total |
| Retinish steel<br>interior finish<br>(painted) wall | 0616304         | 19.09         | 1    | 21.54         |      |               |      |               |                |               |
| Refinish aluminum panel ceiling                     | 6104د06         | 5.51          | 2    | 5.78          |      |               | 2    | 4.49          |                |               |
| Replace<br>membrane, built-<br>up roofing           | 0311107         | 4.04          | 3    | 4.44          |      |               | 20   | 1.20          |                |               |
| Put new membrane over existing-BUR                  | 0311106         | 3.49          | 4    | 3.86          |      |               |      |               |                |               |
| Debris removal & inspection built-up roofing        | 0311101         | 3.30          | 5    | 3.64          |      |               |      |               |                |               |
| Refinish concrete<br>block (painted)<br>wall        | 0612404         | 3.23          | 6    | 3.32          |      |               | 6    | 3.09          |                |               |
| Total panel<br>replacement-metal<br>roof            | 0311367         | 2.64          |      |               | 1    | 23.07         | 1    | 12.97         |                |               |
| Replace aluminum panel ceiling                      | 0636105         | 2.36          | 7    | 2.49          |      |               | 13   | 1.81          |                |               |
| Flashing repairs-<br>built-up roof                  | 0311105         | 2.25          | 8    | 2.49          |      |               |      |               |                |               |
| Minor membrane repairs-BUR                          | 0311103         | 2.20          | 9    | 2.42          |      |               |      |               |                |               |
| Replace fluorescent lighting fixture                | 1131303         | 1.50          | 11   | 1.33          | 9    | 2.18          | 7    | 3.08          |                |               |
| Refinish steel<br>(painted) exterior<br>3rd floor   | 0415L34         | 1.41          | 10   | 1.59          |      |               |      |               |                |               |

### Aviation Unit Maintenance Hangars Cost By Task Task **CACES** % of Description ID No. Total Bragg Wood Devens Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total Replace 1117103 1.28 12 1.24 19 1.14 14 1.80 switchgear, indoor below 600V Replace fin 0943301 13 1.01 radiator, wall 10 ft 1272302 2 8.44 PM & inspect infrared susp comm heater 1114103 3 3.67 Replace xfmr, liquid filled above 600V Replace HID 1131413 3.58 4 mercury vapor fixture 250W 1272303 Replace !R 5 2.65 suspendea comm heater 0415L24 kefinish steel 6 2.64 (painted) exterior 2nd floor 0415L14 7 Refinish steel 2.58 (painted) exterior 1st floor 1272301 2.30 M&R IR 9 suspended comm. heater 0311365 Flashing 10 1.92 22 1.16 replacement-metal roof 0991442 PM chiller-air cool 1.88 11 recip. 5-ton M&R HID 1131411 1.80 12 mercurv vapor

fixture 250W

## Aviation Unit Maintenance Hangars Cost By Task

|  | <del></del>     | <del></del>   |      | ost by 1      |      |               |      |               |      |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens           | 0    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace 1 HP air compressor                                | 0831113         |               |      |               | 13   | 1.71          |      |               |      |               |
| Replace plastic ceiling                                    | 0634205         |               |      |               | 14   | 1.48          |      |               |      |               |
| Replace vinyl asbestos tile flooring                       | 062A202         |               |      |               | 15   | 1.42          | 10   | 2.30          |      |               |
| Refinish concrete floor                                    | 062B202         |               |      |               | 16   | 1.35          |      |               |      |               |
| Refinish acoustical tile wall                              | 0619204         |               |      |               | 17   | 1.29          |      |               |      |               |
| Refinish concrete decking exterior porch                   | 0441104         |               |      |               | 18   | 1.28          |      |               |      |               |
| Rpr xfmr, liquid filled above 600V                         | 1114101         |               |      |               | 20   | 1.10          |      |               |      |               |
| Replace wall radiator, finned 10' section                  | 0981H01         |               |      |               |      |               | 3    | 3.97          |      |               |
| Replace 2,000<br>BTU boiler (oil)                          | 0981326         |               |      |               |      |               | 4    | 3.33          |      |               |
| PM weekly tour<br>2,000 BTU boiler<br>(oil)                | 0981324         |               | ·    |               |      |               | 5    | 3.24          |      |               |
| Replace broken pipe insulation                             | 0984142         |               |      |               |      |               | 8    | 2.85          | _    |               |
| Replace HP<br>sodium fixture<br>250W                       | 1131613         |               |      |               |      |               | 9    | 2.49          |      |               |
| Refinish steel frame (painted), exterior window, 2nd floor | 0431224         |               |      |               |      |               | 11   | 1.89          |      |               |

# Aviation Unit Maintenance Hangars Cost By Task

|  |                 |               |      | ost by 18     | mv.  |               |      | ·             |      |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                      | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens           | O    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace 6500<br>CFM single-zone<br>draw thru             | 09A1C14         |               |      |               |      |               | 12   | 1.89          |      |               |
| M&R HP sodium fixture 250W                               | 1131611         |               |      |               |      |               | 15   | 1.53          |      |               |
| PM annual 6500<br>CFM single-zone<br>draw thru           | 09A1C12         |               |      |               |      |               | 16   | 1.50          | -    |               |
| PM safety switch fused 3P                                | 1122432         |               |      |               |      |               | 17   | 1.42          |      |               |
| M&R fluorescent lighting fixture                         | 1131301         |               |      |               |      |               | 18   | 1.38          |      |               |
| Replace carpet   | 0629102         |               |      |               |      |               | 19   | 1.28          |      |               |
| Refinish plaster wall                                    | 0611104         |               |      |               |      |               | 21   | 1.17          |      |               |
| PM replace filters<br>6500 CFM single<br>zone            | 09A1C13         |               |      |               |      |               | 23   | 1.14          |      |               |
| Refinish painted concrete block exterior wall, 2nd floor | 0415924         |               |      |               |      |               | 24   | 1.12          |      |               |
| Replace lamp HP sodium fixture 250W                      | 1131612         |               |      |               |      |               | 25   | 1.01          |      |               |
| Refinish aluminum frame screen, 2nd floor                | 0434624         |               |      |               |      |               | 26   | 1.01          |      |               |
| Refinish aluminum frame storm window, 2nd floor          | 0434124         |               |      |               |      |               | 27   | 1.00          |      |               |

|  | Organiz         | zational <b>\</b> | ehicle M | laintenar     | ice Facili | ties Cost     | by Task | <u> </u>      |      |               |
|--|-----------------|-------------------|----------|---------------|------------|---------------|---------|---------------|------|---------------|
| Task Description   | CACES<br>ID No. | % of<br>Total     | Bra      | agg           | Wood       |               | Devens  |               | Ord  |               |
|  |                 |                   | Rank     | % of<br>Total | Rank       | % of<br>Total | Rank    | % of<br>Total | Rank | % of<br>Total |
| Replace broken pipe insulation                           | 0984142         | 1.40              | 12       | 1.71          |            |               | 8       | 2.33          |      |               |
| Replace aluminum panel ceiling                           | 0636105         | 1.32              | 11       | 1.77          |            |               | 20      | 1.28          |      |               |
| PM heat/cool<br>thermostat                               | 09E1111         | 1.31              | 13       | 1.52          | 8          | 2.23          | 27      | 1.08          |      |               |
| Refinish steel interior (painted) wall                   | 0616304         | 1.13              | 8        | 1.97          |            |               |         |               |      |               |
| Replace wood<br>(unfinished)<br>ceiling                  | 0635205         | 1.06              |          |               |            |               | 3       | 3.22          | 10   | 1.36          |
| Replace HP 250W sodium fixture                           | 1131613         |                   | 17       | 1.08          |            |               |         |               |      |               |
| Refinish sheetrock (unstippled) wall                     | 0611304         |                   | 18       | 1.01          |            |               | 15      | 1.43          |      |               |
| PM weekly tour<br>250 BTU boiler<br>(oil)                | 0981314         |                   |          |               | 7          | 2.52          |         |               | 8    | 1.64          |
| Refinish aluminum siding, 1st floor                      | 0415114         |                   |          |               | 9          | 2.00          |         |               |      |               |
| Replace<br>switchgear, indoor<br>0-600V                  | 1115103         |                   |          |               | 12         | 1.64          | 26      | 1.15          |      |               |
| Refinish painted concrete block exterior wall, 2nd floor | 0415924         |                   |          |               | 13         | 1.46          |         |               |      |               |
| Replace pipe or gutter                                   | 0822102         |                   |          |               | 14         | 1.45          |         |               |      |               |
| Replace gas<br>compressor > 1/2<br>HP                    | 0831133         |                   |          |               | 15         | 1.43          |         |               |      |               |

|  | Organiz         | ational <b>\</b> | /ehicle M | Iaintenar     | nce Facili | ities Cos     | t by Tasl | ζ.            |      |               |
|--|-----------------|------------------|-----------|---------------|------------|---------------|-----------|---------------|------|---------------|
| Task Description                                   | CACES<br>ID No. | % of<br>Total    | Bra       | agg           | Wo         | ood           | Dev       | vens          | O    | rd            |
|  |                 |                  | Rank      | % of<br>Total | Rank       | % of<br>Total | Rank      | % of<br>Total | Rank | % of<br>Total |
| PM & inspect,<br>motor-starter,<br>0-600V          | 1123602         |                  |           |               | 16         | 1.42          | 28        | 1.08          | 17   | 1.19          |
| Repair steel<br>(painted) single<br>roll-up door   | 0427102         |                  |           |               | 18         | 1.36          |           |               | 20   | 1.06          |
| M&R fluorescent lighting fixture                   | 1131301         |                  |           |               | 19         | 1.34          |           |               | 12   | 1.32          |
| PM 1,200 CFM unit heater                           | 09A1D22         |                  |           |               | 20         | 1.30          | 14        | 1.47          |      |               |
| Refinish steel<br>(painted) single<br>roll-up door | 0427104         |                  |           |               | 21         | 1.14          |           |               |      |               |
| PM 400 CFM unit heater                             | 09A1D12         |                  |           |               | 23         | 1.11          |           |               |      |               |
| Replace unfinished concrete floor                  | 062B102         |                  |           |               | 24         | 1.09          | 24        | 1.16          | 19   | 1.15          |
| Removal & replacement-shingled roof                | 0311357         |                  |           |               | 25         | 1.00          | 16        | 1.43          |      |               |
| Replace 2,000<br>BTU boiler (oil)                  | 0981326         |                  |           |               |            |               | 1         | 3.36          |      |               |
| PM weekly tour<br>2,000 BTU boiler<br>(oil)        | 0981324         |                  |           |               |            |               | 2         | 3.36          |      |               |
| Replace individual furnace gas/oil 2,000 MBU       | 0981M25         |                  |           |               |            |               | 6         | 2.68          |      |               |
| Minor repairs-<br>shingled roof                    | 0311353         |                  |           |               |            |               | 13        | 1.54          |      |               |
| PM & inspect<br>safety switch,<br>enclosed         | 1122102         |                  |           |               |            |               | 17        | 1.39          |      |               |

| Organizational Vehicle Maintenance Facilities Cost by Task |                 |               |                   |               |      |               |      |               |      |               |  |  |
|--|-----------------|---------------|-------------------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task Description   | CACES<br>ID No. | % of<br>Total | Bragg Wood Devens |               | O    | rd            |      |               |      |               |  |  |
|  |                 |               | Rank              | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Replace new over existing-shingled roof                    | 0311356         |               |                   |               |      |               | 18   | 1.37          |      |               |  |  |
| Total roof<br>replacement-roll<br>roofing                  | 0311347         |               |                   |               |      |               | 21   | 1.26          |      |               |  |  |
| Replace hot water<br>heater, electric,<br>120-gal          | 0814H03         |               |                   |               |      |               | 22   | 1.22          |      |               |  |  |
| Replace 1 HP air compressor                                | 0831113         |               |                   |               |      |               |      |               | 16   | 1.20          |  |  |
| Replace<br>switchgear, indoor<br>below 600V                | 1117103         |               |                   |               |      |               |      |               | 18   | 1.16          |  |  |
| Refinish stucco<br>exterior wall, 1st<br>floor             | 0415C14         |               |                   |               |      |               |      |               | 21   | 1.02          |  |  |

#### DS/GS Vehicle Maintenance Shop Cost by Task Task Description CACES % of ID No. **Total** Bragg Wood Devens Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total Replace 40,000 0981215 14.85 1 14.89 BTU boiler (coal) Total panel 0311367 10.74 2 10.77 replacement-metal roof Replace HP 250W 1131613 5.38 3 5.39 sodium fixture M&R HP 250W 1131611 3.31 4 3.31 sodium fixture Repair 40,000 0981211 5 2.60 2.61 BTU boiler (coal) Replace 1131303 2.09 6 2,09 17 1.95 fluorescent lighting fixture 7 Replace lamp in 1131612 2.07 2.07 HP 250W sodium fixture 8 Refinish steel 0616304 1.76 1.77 interior (painted) wall 9 Refinish aluminum 0636104 1.52 1.53 panel ceiling Replace wood 0635205 1.41 10 1.41 (unfinished) ceiling Replace 10,000 0981336 1.33 11 1.33 BTU boiler (oil) PM heat/cool 09E1111 1.33 12 1.32 6 4.27 thermostat PM weekly tour 0981314 1.29 13 1.29 250 BTU boiler

(oil)

#### DS/GS Vehicle Maintenance Shop Cost by Task **Task Description** CACES % of ID No. Total Wood Bragg Devens Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total Membrane 0311107 1.28 14 1.28 replacement builtup roof Refinish concrete 0612404 1.14 15 1.12 5 5.13 block (painted) wall Put new membrane 0311106 1.12 1.12 16 over existing-BUR Debris removal & 0311101 1.05 17 1.05 inspect built-up roof Refinish painted 0415914 8.32 1 concrete block. exterior wall, 1st floor Replace vinyl 062A202 2 8.05 asbestos tile flooring PM 400 CFM unit 09A1D12 3 6.25 heater Refinish metal 0434414 4 5.98

window grating,

switchgear, indoor

Refinish sheetrock

(unstippled) ceiling

Minor repairs-

shingled roof

Replace 2-ton

window A/C

1115103

0631304

0311353

0991223

1st floor

Replace

0-600V

7

8

9

10

3.86

3.51

3.31

3.17

# DS/GS Vehicle Maintenance Shop Cost by Task

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|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens_          | 0    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish wood frame screen cover, 1st floor                       | 0434814         |               |      |               |      |               | 11   | 3.14          |      |               |
| Replacement -<br>shingled roof                                    | 0311357         |               |      |               |      |               | 12   | 2.99          |      |               |
| Place new over existing-shingled roof                             | 0311356         |               |      |               |      |               | 13   | 2.97          |      |               |
| PM 2-ton window<br>A/C  | 0991222         |               |      |               |      |               | 14   | 2.66          |      |               |
| Replace wood frame (painted) exterior window, 1st floor           | 0431315         |               |      |               |      |               | 15   | 2.54          |      |               |
| Flashing repairs-<br>shingled roof                                | 0311355         |               |      |               |      |               | 16   | 2,04          |      |               |
| Replace pipe or gutter  | 0822102         |               |      |               |      |               | 18   | 1.88          |      |               |
| Replace 400 CFM unit heater                                       | 09A1D13         |               |      |               |      |               | 19   | 1.84          |      |               |
| Replace pneumatic thermostat                                      | 09E1112         |               |      |               |      |               | 20   | 1.63          | _    |               |
| Refinish wood<br>frame (painted)<br>exterior window,<br>1st floor | 0431314         |               |      |               |      |               | 21   | 1.46          |      |               |
| Replace wood<br>frame screen<br>cover, 1st floor                  | 0434815         |               |      |               |      |               | 22   | 1.43          |      |               |
| PM & inspect safety switch, enclosed                              | 1122102         |               |      |               |      |               | 23   | 1.41          |      |               |

## DS/GS Vehicle Maintenance Shop Cost by Task **Task Description** CACES % of ID No. Total Wood Bragg Devens Ord % of % of % of % of Total Total Total Rank Total Rank Rank Rank Replace hollow 0533112 24 1.38 core (painted) wood interior door Debris removal & 0311351 25 1.38 inspect shingled roof Replace solid core 0423215 26 1.35 (painted) exterior door Repair steel 0531112 27 1.30 painted interior door Repair solid core 0423212 28 1.14 (painted) exterior door Repair metal 0434412 29 1.08 window gratings,

1st floor

|  |                 | Spec          | ial Purpe<br>Co | ose Main<br>ost By Ta |      | Shops         |      |               |      |               |
|--|-----------------|---------------|-----------------|-----------------------|------|---------------|------|---------------|------|---------------|
| Task Description                             | CACES<br>ID No. | % of<br>Total | Bra             | agg                   | Wo   | ood           | Dev  | ens           | O    | rđ            |
|  |                 |               | Rank            | % of<br>Total         | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish steel<br>interior (painted)<br>wall | 0616304         | 8.15          | 11              | 1.93                  | 4    | 5.83          |      |               | 1    | 48.73         |
| Total roof<br>replacement - roll<br>roofing  | 0311347         | 6.63          |                 |                       | 1    | 9.55          |      |               |      |               |
| Total panel<br>replacement -<br>metal roof   | 0311367         | 5.99          | 12              | 1.83                  | 2    | 6.53          |      |               | 2    | 13.94         |
| Minor roofing<br>repair - roll<br>roofing    | 0311343         | 4.53          |                 |                       | 3    | 6.52          |      |               |      |               |
| Refin aluminum panel ceiling                 | 0636104         | 2.96          | 25              | 1.32                  | 5    | 3.82          |      |               |      |               |
| PM battery<br>secondary dry                  | 1283401         | 2.59          |                 |                       | 6    | 3.73          |      |               |      |               |
| Replace fluorescent lighting fixture         | 1131303         | 2.10          | 3               | 3.30                  | 13   | 1.57          | 18   | 1.30          | 3    | 3.63          |
| Replace broken pipe insulation               | 0984142         | 1.71          | 20              | 1.53                  | 8    | 1.99          |      |               |      |               |
| Replace HP 250W sodium fixture               | 1131613         | 1.59          |                 |                       | 7    | 2.25          |      |               |      |               |
| PM & inspect<br>motor starter,<br>0-600V     | 1123602         | 1.50          |                 |                       | 9    | 1.97          |      |               | 8    | 1.19          |
| Replace<br>switchgear, indoor<br>below 600V  | 1117103         | 1.44          | 13              | 1.83                  | 15   | 1.37          | 16   | 1.68          |      |               |
| PM & inspect safety switch, enclosed         | 1122102         | 1.29          |                 |                       | 12   | 1.61          |      |               |      |               |

# Special Purpose Maintenance Shops Cost By Task

| Took Description                                 | CACES   | % of  |      |               | <u> </u> |               |      |               |      |               |
|--|---------|-------|------|---------------|----------|---------------|------|---------------|------|---------------|
| Task Description                                 | ID No.  | Total | Bra  | agg           | Wo       | ood           | Dev  | ens           | O    | rd            |
|  |         |       | Rank | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish concrete<br>block (painted)<br>wall     | 0612404 | 1.29  |      |               | 10       | 1.72          |      |               |      |               |
| Replace aluminum panel ceiling                   | 0636105 | 1.27  |      |               | 11       | 1.64          |      |               |      |               |
| PM heat/cool<br>thermostat                       | 09E1111 | 1.12  | 16   | 1.72          | 21       | 1.03          |      | ·             | _    |               |
| Refinish concrete floor                          | 062B202 | 1.02  |      |               | 17       | 1.29          | _    |               |      |               |
| PM weekly tour<br>250 BTU boiler<br>(oil)        | 0981314 |       | 1    | 4.53          |          |               |      |               |      |               |
| CK water softener operation & add salt           | 0841302 |       | 2    | 4.53          |          |               |      |               |      |               |
| PM feedwater supply pump                         | 0981912 |       | 4    | 2.70          |          |               |      |               |      |               |
| Replacement of shingled roof                     | 0311357 |       | 5    | 2.57          |          |               | 6    | 5.09          |      |               |
| Rpr feedwater supply pump                        | 0981911 |       | 6    | 2.35          |          |               |      |               |      |               |
| Refinished sheet<br>rock (unstippled)<br>ceiling | 0631304 |       | 7    | 2.31          |          |               | 4    | 6.26          |      |               |
| PM chiller-air cool recip. 10 ton                | 0991452 |       | 8    | 2.21          |          |               |      |               |      |               |
| Replace 1 HP air compressor                      | 0831113 |       | 9    | 2.21          |          |               |      |               |      |               |
| Minor repairs-<br>shingled roof                  | 0311353 |       | 10   | 2.10          |          |               | 5    | 5.59          |      |               |
| Replace feedwater pump                           | 0981913 |       | 14   | 1.78          |          |               |      |               |      |               |

|   |                 | Spec          |       | ose Main<br>ost By Ta | tenance :<br>ask | Shops         |      |               |      |               |
|---|-----------------|---------------|-------|-----------------------|------------------|---------------|------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bragg |                       | Wo               | ood           | Dev  | ens/          | o    | rd            |
|   |                 |               | Rank  | % of<br>Total         | Rank             | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Membrane<br>removal &<br>replacement -<br>built-up roof | 0311107         |               | 15    | 1.73                  |                  |               |      |               |      |               |
| Replace new over existing shingled roof                 | 0311356         |               | 17    | 1.69                  |                  |               | 7    | 5.07          |      |               |
| PM chiller-air cool recip 5-ton                         | 0991442         |               | 18    | 1.67                  |                  |               |      |               |      | ·             |
| Place new<br>membrane over<br>existing BUR              | 0311106         |               | 19    | 1.54                  |                  |               |      |               |      |               |
| Debris removal & inspect built-up roof                  | 0311101         |               | 21    | 1.42                  |                  |               |      |               |      |               |
| Flashing repairs shingled roof                          | 0311355         |               | 22    | 1.39                  | _                |               | 11   | 3.44          |      |               |
| M&R fluorescent lighting fixture                        | 1131301         |               | 23    | 1.37                  |                  |               |      |               | 4    | 1.65          |
| Refinish wire mesh wall                                 | 0616404         |               | 24    | 1.34                  |                  |               |      |               |      |               |
| Replace chiller air cool recip 10-ton                   | 0991453         |               | 26    | 1.16                  |                  |               |      |               |      |               |
| Replace unfinished concrete floor                       | 062B102         |               | 27    | 1.16                  |                  |               |      |               | 11   | 1.03          |
| Replace single<br>zone draw thru<br>6,500 CFM           | 09A1C14         |               | 28    | 1.16                  |                  |               |      |               |      |               |
| Replace 250 BTU boiler (oil)                            | 0981316         |               | 29    | 1.15                  |                  |               |      |               |      |               |
| Refinish sheetrock<br>(unstippled) wall                 | 0611304         |               | 30    | 1.07                  |                  |               | 3    | 6.46          |      |               |

|   |                 | Spec          | ial Purpe<br>Co | ose Main<br>ost By T |      | Shops         |      |               |      |               |
|---|-----------------|---------------|-----------------|----------------------|------|---------------|------|---------------|------|---------------|
| Task Description                                      | CACES<br>ID No. | % of<br>Total | Br              | agg                  | W    | ood           | Dev  | ens ens       | o    | rd            |
|   |                 |               | Rank            | % of<br>Total        | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| M&R HP 250W sodium fixture                            | 1131611         |               |                 |                      | 14   | 1.39          |      |               |      |               |
| Replace wood (unfinished) ceiling                     | 0635205         |               |                 |                      | 16   | 1.33          |      |               |      |               |
| Flashing repairs roll roofing                         | 0311345         |               |                 |                      | 18   | 1.26          |      |               |      |               |
| Refinish steel (painted) exterior, 3rd floor          | 0415L34         |               |                 | 4                    | 19   | 1.24          |      |               |      |               |
| Refinish alumimum siding exterior, 1st floor          | 0415114         |               |                 |                      | 20   | 1.14          |      |               |      |               |
| PM 1,200 CFM unit heater                              | 09A1D22         |               |                 |                      | 22   | 1.02          |      |               | 7    | 1.39          |
| Refinish aluminum frame screen, 3rd floor             | 0434634         |               |                 |                      |      |               | 1    | 7.57          |      |               |
| Replace maple floor                                   | 0625203         |               |                 |                      |      |               | 2    | 6.81          |      |               |
| Replace 200<br>KBTU house<br>furnace (oil)            | 0981D33         |               |                 |                      |      |               | 8    | 5.06          |      |               |
| Sand and refinish maple floor                         | 0625202         |               |                 |                      |      |               | 9    | 4.25          | _    |               |
| PM 200 KBTU<br>house furnance<br>(oil)                | 0981032         |               |                 |                      |      |               | 10   | 3.65          |      |               |
| Refinish aluminum<br>frame storm<br>window, 1st floor | 0434114         |               |                 |                      |      |               | 12   | 2.65          |      |               |

# Special Purpose Maintenance Shops Cost By Task

| Cost by Task   |                  |               |       |               |      |               |        |               |      |               |
|--|------------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|
| Task Description   | CACES<br>ID No.  | % of<br>Total | Bragg |               | Wood |               | Devens |               | Ord  |               |
|  |                  |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Debris removal & inspect shingled roof                   | 0311351          |               |       |               |      |               | 13     | 2.35          |      |               |
| Replace formica vinyl exterior, 1st floor                | 0415O15          |               |       |               |      |               | 14     | 2.28          |      |               |
| Replace wood frame (painted) operable window, 1st floor  | 0431315          |               |       |               |      |               | 15     | 2.14          |      |               |
| Repair 200 KBTU<br>house furnace (oil)                   | 0981 <b>D</b> 31 |               |       |               |      |               | 17     | 1.43          |      |               |
| Refinish wood frame (painted) operable window, 1st floor | 0431314          |               |       |               |      |               | 19     | 1.24          |      |               |
| Replace aluminum frame storm window, 1st floor           | 0434112          |               |       |               |      |               | 20     | 1.17          |      |               |
| Replace sheetrock (unstippled) wall                      | 0611302          |               |       |               |      |               | 21     | 1.12          |      |               |
| Replace sheetrock (unstippled) ceiling                   | 0631302          |               |       |               |      |               | 22     | 1.09          |      |               |
| Minor repairs to maple floor                             | 0625201          |               |       |               |      |               | 23     | 1.07          |      |               |
| Replace formica vinyl exterior, 1st floor                | 0415O12          |               |       |               |      |               | 24     | 1.00          |      |               |
| Refinish wood fin (multi-coat) exterior, 1st floor       | 0415F14          |               |       |               |      |               |        |               | 5    | 1.64          |
| Flashing<br>replacement metal<br>root                    | 0311365          |               |       |               |      |               |        |               | 6    | 1.47          |

|                                      | Special Purpose Maintenance Shops Cost By Task |               |      |               |      |               |      |               |      |               |  |  |  |
|--------------------------------------|--|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|--|
| Task Description                     | CACES<br>ID No.                                | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | vens          | O    | rd            |  |  |  |
|                                      |  |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |  |
| Replace gas<br>compressor > 15<br>HP | 0831143  |               |      |               |      |               |      |               | 9    | 1.10          |  |  |  |
| Replace drinking<br>fountain         | 0811H07  |               |      |               |      |               |      |               | 10   | 1.06          |  |  |  |

|   |                 | Ma            |      | e - Insta<br>ost by Ta |      | &R            |      |               |      |               |
|---|-----------------|---------------|------|------------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                             | CACES<br>ID No. | % of<br>Total | Bra  | agg                    | Wo   | ood           | Dev  | vens          | o    | rd            |
|   |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace 40,000<br>BTU boiler (coal)             | 0981215         | 14.28         |      |                        | 1    | 28.82         |      |               |      |               |
| Total panel<br>replacement -<br>metal roof      | 0311367         | 4.69          | 3    | 2.65                   | 2    | 7.30          |      |               |      |               |
| Replace<br>fluorescent lighting<br>fixture      | 1131303         | 2.60          | 1    | 3.79                   | 6    | 1.68          | 6    | 2.86          |      |               |
| Refinish steel<br>interior (paint)<br>wall      | 0616304         | 2.60          | 2    | 3.04                   | 4    | 2.23          | 7    | 2.79          |      |               |
| Repair 40,000<br>BTU boiler (coal)              | 0981211         | 2.45          |      |                        | 3    | 4.94          |      |               |      |               |
| Refinish aluminum panel ceiling                 | 0636104         | 1.72          | 5    | 2.33                   | 5    | 1.74          |      |               |      |               |
| Refinish sheetrock (unstippled) wall            | 0611304         | 1.67          | 20   | 1.27                   | 8    | 1.21          | 2    | 4.08          |      |               |
| Membrane<br>removal and<br>replacement -<br>BUR | 0311107         | 1.14          | 7    | 2.13                   |      |               |      |               |      |               |
| M&R fluorescent lighting fixture                | 1131301         | 1.12          | 18   | 1.57                   |      |               | 17   | 1.28          |      |               |
| PM heat/cool<br>thermostat                      | 09E1111         | 1.07          | 23   | 1.16                   |      |               | 16   | 1.34          |      |               |
| Replacement of shingled roof                    | 0311357         | -1.03         | 25   | 1.16                   |      |               | 11   | 2.08          |      |               |
| Place new<br>membrane over<br>existing - BUR    | 0311106         | 1.02          | 11   | 1.89                   | -    |               |      |               |      |               |
| Replace<br>transformer, dry<br>below 15,000V    | 1116203         |               | 4    | 2.50                   |      |               |      |               |      |               |

|  |                 | Ma         |      | ce - Insta<br>ost by Ta | llation O<br>ask | &R   |      |               |  |               |
|--|-----------------|------------|------|-------------------------|------------------|--|------|---------------|--|---------------|
| Task<br>Description  | CACES<br>ID No. | % of Total | Br   | agg                     | Wo               | ood  | Dev  | ens           | o  | rd            |
|  |                 |            | Rank | % of<br>Total           | Rank             | % of<br>Total  | Rank | % of<br>Total | Rank   | % of<br>Total |
| Replace hermetic chiller, 100 tons                               | 0991433         |            | 6    | 2.18                    |                  |  |      |               |  |               |
| Refinish concrete block (painted) wall                           | 0612404         |            | 8    | 2.04                    |                  | · Pinganan, and · · · · · · · · · · · · · · · · · · ·  |      |               |  |               |
| Replace<br>switchgear, indoor<br>below 600V                      | 1117103         |            | 9    | 2.00                    |                  | Page Name of State of |      |               | or any state of the state of th |               |
| Refinish pntd.<br>concrete block,<br>exterior wall, 1st<br>floor | 0415914         |            | 10   | 1.95                    |                  |  |      |               |  |               |
| Replace broken pipe insulation                                   | 0984142         |            | 12   | 1.89                    |                  |  |      |               |  |               |
| Repair hermetic chiller, 100 tons                                | 0991431         |            | 13   | 1.88                    |                  |  |      |               |  |               |
| Replace carpet   | 0629102         |            | 14   | 1.76                    |                  |  | 15   | 1.40          |  |               |
| Debris removal<br>and inspection -<br>built-up roof              | 0311101         |            | 15   | 1.74                    |                  |  |      |               |  |               |
| Replace exhaust fan, 10,000 CFM                                  | 09C1133         |            | 16   | 1.65                    |                  |  |      |               |  |               |
| Replace 2-ton window A/C   | 0991223         |            | 17   | 1.60                    |                  |  |      |               |  |               |
| PM exhaust fan,<br>10,000 CFM                                    | 09C1132         |            | 19   | 1.43                    |                  |  |      |               |  |               |
| Replace linoleum floor   | 062A102         |            | 21   | 1.22                    |                  |  |      |               |  |               |
| Flashing repairs -<br>built-up roof                              | 0311105         |            | 22   | 1.19                    |                  |  |      |               |  |               |

## Maintenance - Installation O&R Cost by Task

|   |                 |               |      | ost by 15     |      |               |      |               |      | .i            |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                   | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | 0    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Minor membrane<br>repairs built-up<br>roof            | 0311103         |               | 24   | 1.16          |      |               |      |               |      |               |
| Replace single-<br>zone draw<br>through, 6,500<br>CFM | 09A1C14         |               | 26   | 1.15          |      |               |      |               |      |               |
| PM 2-ton window<br>A/C                                | 0991222         |               | 27   | 1.12          |      | -             |      |               |      |               |
| Replace drinking fountain                             | 0811H07         |               | 28   | 1.12          |      |               |      |               |      |               |
| PM hermetic chiller, 100 tons                         | 0991432         |               | 29   | 1.06          |      |               |      |               |      |               |
| Replace solid core<br>wood (painted)<br>interior door | 0533212         |               | 30   | 1.05          |      |               |      |               |      |               |
| PM 1,200 CRM<br>unit heater                           | 09A1D22         |               | 31   | 1.04          |      |               |      |               |      |               |
| Replace aluminum panel ceiling                        | 0636105         |               | 32   | 1.00          |      |               |      |               |      |               |
| Replace 1 HP air compressor                           | 0831113         |               |      |               | 7    | 1.29          | 20   | 1.20          |      |               |
| PM and inspect<br>motor starter,<br>0-600V            | 1123602         |               |      |               | 9    | 1.19          |      |               |      |               |
| PM annual 40,000<br>BTU boiler (coal)                 | 0981212         |               |      |               | 10   | 1.08          |      |               |      |               |
| Replace vinyl asbestos tile flooring                  | 062A202         |               |      |               | 11   | 1.01          |      |               |      |               |
| Total roof<br>replacement - roll<br>roofing           | 0311347         |               |      |               |      |               | 1    | 4.46          |      |               |

|   | ٠               | Ma            | intenanc<br>Co | e - Insta<br>ost by Ta |      | &R   |      |               |      |               |
|---|-----------------|---------------|----------------|------------------------|------|--|------|---------------|------|---------------|
| Task<br>Description                                   | CACES<br>ID No. | % of<br>Total | Bra            | agg                    | Wo   | ood  | Dev  | ens           | O    | rd            |
|   |                 |               | Rank           | % of<br>Total          | Rank | % of<br>Total  | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish sheetrock (unstippled) ceiling               | 0631304         |               |                |                        |      | and the same of th | 3    | 3.27          |      |               |
| Replace baseboard radiator, 10 ft                     | 0943201         |               |                |                        |      |  | 4    | 3.06          |      |               |
| Minor roofing repair - roll roofing                   | 0311343         |               |                |                        |      |  | 5    | 3.06          |      |               |
| Refinish wire mesh wall                               | 0616404         |               |                |                        |      |  | 8    | 2.54          |      |               |
| PM and inspect<br>safety switch,<br>enclosed          | 1122102         |               |                |                        |      |  | 9    | 2.32          |      |               |
| Minor roofing<br>repair - roll<br>roofing             | 0311353         |               |                |                        |      |  | 10   | 2.30          |      |               |
| Place new over existing - shingled roof               | 0311356         |               |                |                        |      |  | 12   | 2.07          |      |               |
| PM weekly tour,<br>250 BTU boiler<br>(gas)            | 0981115         |               |                |                        |      | . The same to the  | 13   | 1.70          |      |               |
| Flashing repairs - shingled roof                      | 0311355         |               |                |                        |      |  | 14   | 1.42          |      |               |
| Replace wood frame (painted), oper. window, 1st floor | 0431315         |               |                |                        |      |  | 18   | 1.26          |      |               |
| Replace formica-<br>vinyl exterior, 1st<br>floor      | 0415015         |               |                |                        |      |  | 19   | 1.23          |      |               |
| Replace 200<br>KBTU house<br>furnace (oil)            | 0981D33         |               |                |                        |      |  | 21   | 1.13          |      |               |

| · Maintenance - Installation O&R Cost by Task     |                 |               |      |               |      |               |      |               |      |               |  |  |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task<br>Description                               | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens .         | o    | rd            |  |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Replace hot water<br>heater, electric,<br>120-gal | 0814Н03         |               |      |               |      |               | 22   | 1.06          |      |               |  |  |

|   |                 |               |      | ition Stor<br>Cost by |      | ities  |      | ~ <del>~~~</del> |                    |   |
|---|-----------------|---------------|------|-----------------------|------|--|------|------------------|--------------------|---|
| Task<br>Description   | CACES<br>ID No. | % of<br>Total | Br   | agg                   | W    | ood  | Dev  | vens             | O                  | rd  |
|   |                 |               | Rank | % of<br>Total         | Rank | % of<br>Total  | Rank | % of<br>Total    | Rank               | % of<br>Total   |
| Total panel<br>replacement -<br>metal roof                          | 0311367         | 20.63         | 1    | 31.60                 |      |  |      |                  |                    |   |
| Refinish<br>aluminum panel<br>ceiling                               | 0636104         | 11.49         | 3    | 8.23                  | 1    | 24.36  | 2    | 12.86            |                    |   |
| M&R - lighting<br>ground rod  | 1143511         | 8.75          | 2    | 11.30                 |      |  | 4    | 6.73             |                    |   |
| Refinish steel<br>interior (painted)<br>wali                        | 0616304         | 5.18          |      |                       |      |  | 1    | 25.41            |                    | · Proposition - |
| Replace<br>aluminum panel<br>ceiling                                | 0636105         | 4.85          | 4    | 3.54                  | 2    | 10.39  | 5    | 5.17             | THE WILLIAM STREET |   |
| Refinish concrete exterior wall, 1st floor                          | 0415A14         | 3.19          | 5    | 3.17                  | 3    | 6.20   |      |                  |                    |   |
| Replace unfinished concrete floor                                   | 062B102         | 2.96          | 6    | 3.01                  | 6    | 3.46   | 10   | 2.43             | 1                  |   |
| Debris removal<br>and inspection -<br>concrete sealed<br>panel roof | 0311411         | 2.17          |      |                       |      | The second secon | 3    | 10.64            |                    |   |
| Repair aluminum panel ceiling                                       | 0636102         | 1.91          | 15   | 1.41                  | 5    | 4.03   | 12   | 2.03             |                    |   |
| Flashing<br>replacement -<br>metal roof                             | 0311365         | 1.68          | 7    | 2.58                  |      |  |      |                  |                    |   |
| Refinish concrete exterior wall, 2nd floor                          | 0415A24         | 1.57          | 18   | 1.29                  | 4    | 5.06   |      |                  |                    |   |

|   |                 |               |      | ltion Stor<br>Cost by |      | ities         |      |               |      |               |
|---|-----------------|---------------|------|-----------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description   | CACES<br>ID No. | % of<br>Total | Br   | agg                   | W    | ood           | Dev  | vens          | O    | rd            |
|   |                 |               | Rank | % of<br>Total         | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Minor repairs to concrete floor                               | 062B101         | 1.47          | 12   | 1.46                  | 15   | 1.67          | 15   | 1.34          |      |               |
| Membrane<br>removal and<br>replacement -<br>BUR               | 0311107         | 1.45          | 8    | 1.83                  | 13   | 1.76          |      |               |      |               |
| Repair steel<br>(painted) exterior<br>door                    | 0421212         | 1.33          | 9    | 1.64                  |      |               |      |               |      |               |
| Place new<br>membrane over<br>existing - BUR                  | 0311106         | 1.29          | 10   | 1.63                  | 18   | 1.58          |      |               |      |               |
| Replace concrete exterior wall, 1st floor                     | 0415A12         | 1.24          | 19   | 1.23                  | 10   | 2.45          |      |               |      |               |
| Debris removal<br>and inspection -<br>built-up roof           | 0311101         | 1.18          | 11   | 1.50                  | 20   | 1.41          |      | ,             |      |               |
| Replace wood (unfinished) ceiling                             | 0635205         |               | 14   | 1.44                  |      |               |      |               |      |               |
| PM and inspect<br>safety switch,<br>enclosed                  | 1122102         |               | 16   | 1.35                  |      |               |      |               |      |               |
| Debris removal<br>and inspection -<br>metal roofing           | 0311361         |               | 17   | 1.30                  |      |               |      |               |      |               |
| Repair steel (self-<br>coating) exterior<br>finish, 1st floor | 0415K12         |               | 20   | 1.23                  |      |               |      |               |      |               |

## **Ammunition Storage Facilities** Cost by Task Task CACES % of Wood Devens Ord Description ID No. Total Bragg % of % of % of % of Rank Total Rank Total Rank Total Rank Total 2.89 Refinish painted 0415924 concrete block exterior wall, 2nd floor 0415914 9 2.48 Refinish painted concrete block exterior wall, 1st floor 2.19 Replace 1115103 11 switchgear, indoor, 0-600V 0415A22 12 1.85 Repair concrete exterior wall, 2nd ficor 0427102 14 1.75 Repair steel single roll-up door 0616202 Repair steel 16 1.67 interior (unpainted) wall 0636103 17 1.65 Refinish repaired aluminum panel seiling Refinish steel 0427104 19 1.45 single roll-up door 21 1.25 Replace 1131303 fluorescent lighting fixture 1131103 22 1.11 Replace incandescent

lighting fixture

|   |                 |               | Ammuni | ition Stor<br>Cost by | age Facil<br>Task | ities         |      |               |      |               |
|---|-----------------|---------------|--------|-----------------------|-------------------|---------------|------|---------------|------|---------------|
| Task<br>Description                                       | CACES<br>ID No. | % of<br>Total | Br     | agg                   | W                 | ood           | Dev  | vens          | O    | rd            |
|   |                 |               | Rank   | % of<br>Total         | Rank              | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Minor repairs -<br>concrete sealed<br>panel roof          | 0311413         |               |        |                       |                   |               | 6    | 4.89          |      |               |
| Refinish steel<br>(painted) exterior<br>finish, 1st floor | 0415L14         |               |        |                       |                   |               | 7    | 4.50          |      |               |
| Minor replace -<br>concrete sealed<br>panel roof          | 0311414         |               |        |                       |                   |               | 8    | 3.42          |      |               |
| Flashing repair -<br>concrete sealed<br>panel roof        | 0311415         |               |        |                       |                   |               | 9    | 2.71          |      |               |
| Replace HID,<br>250W metal<br>halide fixture              | 1131423         |               |        |                       |                   |               | 11   | 2.39          |      |               |
| Replace HID,<br>250W metal<br>halide lamp                 | 1131422         |               |        |                       |                   |               | 13   | 1.81          |      |               |
| Moist. insp. non-<br>dest. concrete<br>sealed panel roof  | 0311412         |               |        |                       |                   |               | 14   | 1.75          |      |               |

|  |                 |               |      | Storage Fost by Ta |      |               |      |  |        |               |
|--|-----------------|---------------|------|--------------------|------|---------------|------|--|--------|---------------|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Br   | agg                | W    | ood           | Dev  | vens   | O      | rd            |
|  |                 |               | Rank | % of<br>Total      | Rank | % of<br>Total | Rank | % of<br>Total  | Rank   | % of<br>Total |
| Replace 50,000<br>CFM 2-pipe<br>induction unit       | 09A1744         | 18.02         |      |                    | 1    | 35.37         |      |  | ;<br>; |               |
| Replace<br>evaporative<br>condenser, 300-ton         | 0991D33         | 6.29          |      |                    | 2    | 12.35         |      | The state of the s | 1      |               |
| Replace<br>transformer, liquid<br>filled, above 600V | 1114103         | 3.38          |      |                    | 3    | 6.03          |      |  | : 2    | 9.34          |
| Membrane<br>removal and<br>replacement -<br>BUR      | 0311107         | 2.67          | 2    | 4.48               | 9    | 1.30          | 2    | 4.18   |        |               |
| Place new<br>membrane over<br>existing - BUR         | 0311106         | 2.25          | 4    | 3.98               | 12   | 1.17          | 8    | 2.86   |        |               |
| Debris removal<br>and inspection -<br>built-up roof  | 0311101         | 2.14          | 7    | 3.67               | 14   | 1.05          | 4    | 3.19   |        |               |
| PM 20-ton chiller WCH recip.                         | 0991512         | 2.14          | 1    | 6.80               |      |               |      |  |        |               |
| PM and replace filter - 2-pipe, 50,000 CFM ind. unit | 09A1743         | 1.96          |      |                    | 4    | 3.85          |      |  |        |               |
| PM annual, 50,000<br>CFM, 2-pipe ind.<br>unit        | 09A1742         | 1.95          |      |                    | 5    | 3.83          |      |  |        |               |
| PM and inspection, motor starter, 0-600V             | 1123602         | 1.51          | 9    | 2.78               |      |               | 5    | 3.08   |        |               |
| Refinish aluminum panel ceiling                      | 0636104         | 1.50          | 6    | 3.67               |      | -             | 10   | 2.43   |        |               |

|   |                 |               |      | Storage Fost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|--------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                   | CACES<br>ID No. | % of<br>Total | Br   | agg                | Wo   | ood           | Dev  | vens          | O    | rd            |
|   |                 |               | Rank | % of<br>Total      | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace LP 200W sodium fixture                        | 1131623         | 1.50          |      |                    | 6    | 2.94          |      |               |      |               |
| Flashing repairs -<br>built-up roof                   | 0311105         | 1.44          | 11   | 2.50               |      |               | 12   | 1.92          |      |               |
| Minor membrane<br>repairs - BUR                       | 0311103         | 1.41          | 13   | 2.43               |      |               | 11   | 2.02          |      |               |
| Replace finished interior concrete wall               | 061A202         | 1.35          |      |                    | 11   | 1.25          | 1    | 4.97          |      |               |
| Replace 20-ton chiller WCH recip                      | 0991513         | 1.33          | 3    | 4.24               |      |               |      |               |      |               |
| PM and inspect,<br>safety switch,<br>enclosed         | 1122102         | 1.26          | 18   | 1.58               |      | 7             | 2.89 |               |      |               |
| Replace single-<br>zone draw<br>through, 2,500<br>CFM | 09A1C64         | 1.20          | 5    | 3.81               |      |               |      |               |      |               |
| PM heat/cool<br>thermostat                            | 09E1111         | 1.08          |      |                    | 13   | 1.06          | 19   | 1.54          |      |               |
| Refinish finished interior concrete wall              | 061A204         | 1.07          |      |                    | 15   | 1.00          | 3    | 3.94          |      |               |
| Refinish concrete exterior wall, 1st floor            | 0415A14         | 1.05          | 22   | 1.21               |      |               | 17   | 1.76          |      |               |
| PM single-zone draw through, 2,500 CFM                | 09A1C62         |               | 8    | 3.03               |      |               |      |               |      |               |
| PM single-zone draw through, 1,000 CFM                | 09A1C52         |               | 10   | 2.51               |      |               |      |               |      |               |

|  |                 |               |      | torage F      |      |  |      |               |      |               |
|--|-----------------|---------------|------|---------------|------|--|------|---------------|------|---------------|
| Task<br>Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od   | Dev  | ens ens       | 0    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total  | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace 20-ton hermetic chiller                              | 0991511         |               | 12   | 2.46          |      |  |      |               |      |               |
| Replace rubber tile flooring                                 | 062A302         |               | 14   | 2.16          |      | e de la companya de l |      |               |      |               |
| Replace single-<br>zone draw<br>through, 1,000<br>CFM        | 09A1C54         |               | 15   | 2.16          |      | The state of the s |      |               |      |               |
| Replace filter,<br>single-zone draw<br>through, 2,500<br>CFM | 09A1C63         |               | 16   | 1.99          |      |  |      |               |      |               |
| Replace aluminum panel ceiling                               | 0636105         |               | 17   | 1.59          |      |  |      |               |      |               |
| Replace 2,000<br>BTU boiler (oil)                            | 0981326         |               | 19   | 1.31          |      |  | 6    | 2.94          |      |               |
| Replace aluminum interior wall                               | 0616105         |               | 20   | 1.29          |      |  |      |               |      |               |
| M&R, motor starter, 0-600V                                   | 1123601         |               | 21   | 1.26          |      |  | 26   | 1.24          |      |               |
| PM weekly tour,<br>2,000 BTU poiler<br>(oil)                 | 0981324         |               | 22   | 1.20          |      |  | 9    | 2.85          |      |               |
| Replace<br>switchgear, indoor<br>below 600V                  | 1117103         |               | 23   | 1.19          |      |  | 20   | 1.51          |      |               |
| Refinish concrete<br>block (painted)<br>wall                 | 0612404         |               | 24   | 1.19          |      |  |      |               |      |               |
| Refinish concrete floor                                      | 062B202         |               | 25   | 1.15          |      |  |      |               | 20   | 1.40          |

|  |                 |               |      | Storage F<br>ost by Ta |      |               |      |               |      |               |
|--|-----------------|---------------|------|------------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg                    | W    | ood           | De   | vens          | O    | rd            |
|  |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace vinyl asbestos tile flooring                         | 062A202         |               | 26   | 1.13                   |      |               |      |               | 3    | 9.07          |
| Replace filter,<br>single-zone draw<br>through, 1,000<br>CFM | 09A1C53         |               | 27   | 1.00                   |      |               |      |               |      |               |
| M&R LP 200W sodium fixture                                   | 1131621         |               |      | -                      | 7    | 1.71          |      |               |      |               |
| Replace<br>transformer, liquid<br>filled, above 600V         | 1114101         |               |      |                        | 8    | 1.62          |      |               | 8    | 2.79          |
| Replace<br>switchgear, indoor,<br>0-600V                     | 1115103         |               |      |                        | 10   | 1.29          |      |               |      |               |
| Refinish stucco<br>interior wall                             | 0611404         |               |      |                        |      |               | 13   | 1.92          |      |               |
| Refinish stucco interior ceiling                             | 0631404         |               |      |                        |      |               | 14   | 1.88          |      |               |
| Replace metal<br>walk in cooler<br>interior door             | 0545325         |               |      |                        |      |               | 15   | 1.88          |      |               |
| Replace unfinished concrete floor                            | 062B102         |               |      |                        |      |               | 16   | 1.88          |      |               |
| Minor repairs -<br>shingled roof                             | 0311353         |               |      |                        |      |               | 18   | 1.63          | 11   | 1.64          |
| Replace fan unit -<br>refrig fan coil,<br>5-ton              | 0991F33         |               |      |                        |      |               | 21   | 1.48          |      |               |
| Replacement of shingled roof                                 | 0311357         |               |      |                        |      |               | 22   | 1.47          | 18   | 1.46          |

| Cold Storage | <b>Facilities</b> |
|--------------|-------------------|
| Cost by      | Task              |

| Task  | CACES           | % of  |      |               |      |               |      |               |      |               |
|---|-----------------|-------|------|---------------|------|---------------|------|---------------|------|---------------|
| Description                                       | ID No.          | Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | O    | rd            |
|   |                 |       | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace new over existing-shingled roof           | 0311356         |       |      |               |      |               | 23   | 1.47          | 19   | 1.44          |
| Refinish concrete decking exterior porch          | 0441104         |       |      |               |      |               | 24   | 1.46          |      |               |
| Refinish sheetrock (unstippled) wall              | 0611304         | -     |      |               |      |               | 25   | 1.38          |      |               |
| Repair metal walk-<br>in cooler interior<br>door  | 0534322         |       |      |               |      |               | 27   | 1.03          |      |               |
| Minor repairs to concrete floor                   | <b>062B</b> 101 |       |      |               |      |               | 28   | 1.03          |      |               |
| Replace carpet                                    | 0629102         |       |      |               |      |               | 29   | 1.02          |      |               |
| Replace simplex<br>air compressor, 1<br>HP        | 09E1313         |       |      |               |      |               | 30   | 1.00          |      |               |
| Flashing repairs -<br>shingled roof               | 0311355         |       |      |               |      |               | 31   | 1.00          | 25   | 1.08          |
| Replace lead-lined interior wall                  | 0616505         |       |      |               |      |               |      |               | 1    | 11.74         |
| Refinish sheetrock (stippled) wall                | 0611204         |       |      |               |      |               |      |               | 4    | 7.35          |
| Refinish sheetrock (stippled) ceiling             | 0631204         |       |      |               |      |               |      |               | 5    | 5.70          |
| Replace 200<br>KBTU house<br>furnace (gas)        | 0981C33         |       |      |               |      |               |      |               | 6    | 3.05          |
| Remove CW<br>expansion chamber<br>and install new | 0813702         |       |      |               |      |               |      |               | 7    | <b>2.</b> 83  |

|   |                 |               |      | Storage F<br>ost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|------------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description   | CACES<br>ID No. | % of<br>Total | Bra  | agg                    | Wo   | ood           | Dev  | ens ens       | Ord  |               |
|   |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish wood<br>(multi-coat)<br>exterior, 1st floor        | 0415F14         |               |      |                        |      |               |      |               | 9    | 2.61          |
| Refinish panel<br>(solid) interior<br>wall                  | 0615504         |               |      |                        |      |               |      |               | 10   | 2.27          |
| Remove HW expansion chamber and install new                 | 0814702         |               |      |                        |      |               |      |               | 12   | 1.64          |
| PM 200 KBTU<br>house furnace<br>(gas)                       | 0981C32         |               |      |                        |      |               |      |               | 13   | 1.62          |
| Replace HW pipe<br>and fittings, steel<br>or cast iron      | 0814103         |               |      |                        |      |               |      |               | 14   | 1.61          |
| Replace CW pipe<br>and fittings, steel<br>or cast iron      | 0813103         |               |      |                        |      |               |      |               | 15   | 1.61          |
| Replace wood frm<br>double pane oper.<br>window, 1st floor  | 0431815         |               |      |                        |      |               |      |               | 16   | 1.50          |
| Replace pipe and fittings, waste and vent                   | 0812103         |               |      |                        |      |               |      |               | 17   | 1.49          |
| Refinish wood frm<br>double pane oper.<br>window, 1st floor | 0431814         |               |      |                        |      |               |      |               | 21   | 1.28          |
| Clean and service<br>hot water heater,<br>gas/oil, 30-gal   | 0814D02         |               |      |                        |      |               |      |               | 22   | 1.16          |
| Repair sheetrock<br>(stippled) wall                         | 0611202         |               |      |                        |      |               |      |               | 23   | 1.14          |

|  | Cold Storage Facilities  Cost by Task          |  |      |               |      |               |      |               |      |               |  |  |  |  |
|--|--|--|------|---------------|------|---------------|------|---------------|------|---------------|--|--|--|--|
| Task<br>Description                        | Description ID No. Total Bragg Wood Devens Ord |  |      |               |      |               |      |               |      |               |  |  |  |  |
|  |  |  | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |  |  |
| Replace<br>fluorescent lighting<br>fixture | 1131303  |  |      |               |      |               |      |               | 26   | 1.02          |  |  |  |  |

| General | Pur  | pos | e | Warehouse |  |
|---------|------|-----|---|-----------|--|
| (       | Cost | by  | T | 'ask      |  |

|  |                 |               | C    | ost by Ta     | ask  | <del></del>   |      |               |      |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Br   | agg           | Wo   | ood           | Dev  | vens          | o    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Total panel<br>replacement -<br>metal roof           | 0311367         | 11.91         | 1    | 12.29         | 1    | 20.37         | 3    | 3.39          | 4    | 3.48          |
| Refinish aluminum panel ceiling                      | 0636104         | 3.44          | 2    | 5.19          |      |               | 1    | 4.81          |      |               |
| Replace wood (unfinished) ceiling                    | 0635205         | 3.02          | 5    | 2.43          | 2    | 3.96          | 5 -  | 2.81          | 6    | 3.23          |
| Replacement of shingled roof                         | 0311357         | 2.53          | 3    | 3.10          | 8    | 1.20          | 6    | 2.63          | 5    | 3.32          |
| Minor repairs -<br>shingled roof                     | 0311353         | 2.21          | 4    | 2.53          |      |               | 4    | 2.90          | 7    | 2.98          |
| Replace new over existing - shingled roof            | 0311356         | 1.85          | 7    | 2.04          |      |               | 7    | 2.62          | 8    | 2.60          |
| Replace<br>fluorescent lighting<br>fixture           | 1131303         | 1.70          | 9    | 1.56          | 4    | 1.88          | 16   | 1.34          | 10   | 1.97          |
| Replace aluminum panel ceiling                       | 0636105         | 1.47          | 6    | 2.23          |      |               | 11   | 1.94          |      |               |
| Flashing repairs -<br>shingled roof                  | 0311355         | 1.45          | 8    | 1.67          |      |               | 12   | 1.79          | 11   | 1.95          |
| Replace vinyl asbestos tile flooring                 | 062A202         | 1.35          |      |               | 3    | 2.28          |      |               | 19   | 1.15          |
| Refinish sheetrock (unstippled) wall                 | 0611304         | 1.32          |      |               | 6    | 1.76          | 13   | 1.65          | 9    | 2.14          |
| Refinish wood<br>(multi-coat)<br>exterior, 1st floor | 0415F14         | 1.16          |      |               |      |               |      |               | 1    | 5.44          |
| Flashing<br>replacement -<br>metal roof              | 0311365         | 1.02          | 14   | 1.00          | 7    | 1.69          |      |               |      |               |

## General Purpose Warehouse Cost by Task

|  |                 |               |      | ost by Ta     | ask  |               |      |               |      |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                    | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | De   | vens          | o    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace<br>switchgear, indoor<br>below 600V            | 1117103         | 1.01          | 11   | 1.16          |      |               |      |               | 13   | 1.64          |
| Replace maple floor                                    | 0625203         |               | 10   | 1.16          |      |               |      |               |      |               |
| PM heat/cool<br>thermostat                             | 09E1111         |               | 12   | 1.07          | -    |               | 22   | 1.01          |      |               |
| Debris removal<br>and inspection -<br>shingled roof    | 0311351         |               | 13   | 1.01          |      |               | 17   | 1.21          | 18   | 1.19          |
| Refinish aluminum siding exterior, 1st floor           | 0415114         |               |      |               | 5    | 1.76          |      |               |      |               |
| Replace single-<br>zone draw<br>through, 25,000<br>CFM | 09A1C34         |               |      |               | 9    | 1.12          |      |               |      |               |
| Refinish aluminum siding exterior, 2nd floor           | 0415124         |               |      |               | 10   | 1.06          |      |               |      |               |
| Membrane<br>removal and<br>replacement -<br>BUR        | 0311107         |               |      |               |      |               | 2    | 3.42          |      |               |
| Debris removal<br>and inspection -<br>BUR              | 0311101         |               |      |               |      |               | 8    | 2.61          |      |               |
| Place new<br>membrane over<br>existing - BUR           | 0311106         |               |      |               |      |               | 9    | 2.34          |      |               |
| Replace vinyl sheet flooring                           | 062A402         |               |      |               |      |               | 10   | 2.31          |      |               |
| Minor membrane repairs - BUR                           | 0311103         |               |      |               |      |               | 14   | 1.65          |      |               |

|   |                 | (             |      | Ourpose Vost by Ta | Warehou<br>ask | se            |      |               |      |               |
|---|-----------------|---------------|------|--------------------|----------------|---------------|------|---------------|------|---------------|
| Task<br>Description                               | CACES<br>ID No. | % of<br>Total | Bra  | agg                | We             | od            | Dev  | ens/          | o    | rd            |
|   |                 |               | Rank | % of<br>Total      | Rank           | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Flashing repairs -<br>BUR                         | 0311105         |               |      |                    |                |               | 15   | 1.57          |      |               |
| Replace wood parquetry floor                      | 0625103         |               |      |                    |                |               | 18   | 1.15          |      |               |
| Refinish concrete floor                           | 062B202         |               |      |                    |                |               | 19   | 1.15          |      |               |
| Refinish concrete<br>block (painted)<br>wall      | 0612404         |               | -    |                    |                |               | 20   | 1.11          |      |               |
| Replace hot water<br>heater, electric,<br>120-gal | 0814Н03         |               |      |                    |                |               | 21   | 1.02          |      |               |
| Refinish sheetrock (unstippled) ceiling           | 0631304         |               |      |                    |                |               | 23   | 1.01          | 17   | 1.24          |
| Total roof<br>replacement - roll<br>roofing       | 0311347         |               |      |                    |                |               |      |               | 2    | 5.33          |
| Minor roofing<br>repair - roll<br>roofing         | 0311343         |               |      |                    |                |               |      |               | 3    | 3.71          |
| Refinish steel (painted) exterior, 1st floor      | 0415L14         |               |      |                    |                |               |      |               | 12   | 1.92          |
| Replace wood (finished) ceiling                   | 0635175         |               |      |                    |                |               |      |               | 14   | 1.56          |
| Replace carpet                                    | 0629102         |               |      |                    |                |               |      |               | 15   | 1.43          |
| Replace CW pipe or fittings, steel                | 0813103         |               |      |                    |                |               |      |               | 16   | 1.34          |
| PM 100 KBTU<br>house furnace<br>(gas)             | 0981C22         |               |      |                    |                |               |      |               | 20   | 1.13          |

| General Purpose Warehouse<br>Cost by Task                      |         |  |      |               |      |               |      |               |      |               |  |  |  |
|--|---------|--|------|---------------|------|---------------|------|---------------|------|---------------|--|--|--|
| Task CACES % of Description ID No. Total Bragg Wood Devens Ord |         |  |      |               |      |               |      |               |      |               |  |  |  |
|  |         |  | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |  |
| Refinish metal<br>window grating,<br>1st floor                 | 0434414 |  |      |               |      |               |      |               | 22   | 1.11          |  |  |  |

|  |                 |               | Hospita | ıl - Cost     | by Task |               |      |               |      |               |
|--|-----------------|---------------|---------|---------------|---------|---------------|------|---------------|------|---------------|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Bra     | agg           | Wo      | ood           | Dev  | ens ens       | o    | rd            |
|  |                 |               | Rank    | % of<br>Total | Rank    | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace ash handling system                          | 0981615         | 6.46          |         |               |         |               | 1    | 14.68         |      |               |
| Replace vinyl asbestos tile flooring                 | 062A202         | 5.42          | 1       | 6.92          | 1       | 7.37          | 3    | 3.48          |      |               |
| Replace fluorescent lighting fixture                 | 1131303         | 3.43          | 3 -     | 5.18          | 8       | 2.14          | 14   | 1.40          |      |               |
| Replace carpet                                       | 0629102         | 3.20          | 2       | 5.23          |         |               |      |               |      |               |
| Replace ceramic tile wall                            | 0612805         | 2.98          | 4       | 4.82          |         |               |      |               |      |               |
| Clean duct coil 1-<br>row HW 12 x 24                 | 09A1G11         | 2.53          |         |               |         |               | 2    | 5.75          |      |               |
| Repair solid core<br>wood (painted)<br>interior door | 0533212         | 2.35          | 7       | 2.96          |         |               | 10   | 1.75          |      |               |
| Replace<br>switchgear, indoor<br>below 600V          | 1117103         | 2.34          | 6       | 3.37          |         |               | 18   | 1.24          |      |               |
| Refinish plaster wall                                | 0611104         | 2.03          | 5       | 3.59          |         |               |      |               |      |               |
| Refinish sheetrock (unstippled) wall                 | 0611304         | 1.89          | 13      | 1.52          | 4       | 3.61          | 7    | 2.23          |      |               |
| PM heat/cool<br>thermostat                           | 09E1111         | 1.60          | 16      | 1,27          |         |               | 9    | 2.07          |      |               |

|  |                 |               | Hospita | al - Cost     | by Task |               |      |               |      |               |
|--|-----------------|---------------|---------|---------------|---------|---------------|------|---------------|------|---------------|
| Task<br>Description                                    | CACES<br>ID No. | % of<br>Total |         | agg           | Wo      | ood           | Dev  | ens/          | O    | rd            |
|  |                 |               | Rank    | % of<br>Total | Rank    | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Total roof<br>replacement - roll<br>roofing            | 0311347         | 1.50          | 8       | 2.81          |         |               |      |               |      |               |
| M&R fluorescent lighting fixture                       | 1131301         | 1.44          | 9       | 2.14          |         |               |      |               |      |               |
| Replace solid core<br>wood (painted)<br>interior door  | 0533215         | 1.30          | 11      | 1.74          |         |               |      |               |      |               |
| Replace wallpaper                                      | 0614505         | 1.26          |         |               |         |               | 4    | 2.86          |      |               |
| Refinish solid core<br>wood (painted)<br>interior door | 0533214         | 1.25          | 14      | 1.44          |         |               | 22   | 1.10          |      |               |
| Replace diesel generator component                     | 1281203         | 1.23          |         |               |         |               | 5    | 2.78          |      |               |
| Replace vapor gas<br>generator<br>component            | 1281303         | 1.23          |         |               |         |               | 6    | 2.78          |      |               |
| Minor roofing<br>repair - roll<br>roofing              | 0311343         | 1.04          | 10      | 1.96          |         |               |      |               |      |               |
| PM on steam trap<br>F&T < 1"                           | 0984372         | 1.03          |         |               |         |               | 13   | 1.48          |      |               |
| Refinish concrete exterior wall, 3rd floor             | 0415A34         |               | 12      | 1.63          |         |               |      |               |      |               |
| Repair plaster wall                                    | 0611102         |               | 15      | 1.33          |         |               |      |               |      |               |
| Replace acoustic tile (dropped) ceiling                | 0632205         |               | 17      | 1.15          |         |               |      |               |      |               |
| Repair ceramic tile wall                               | 0612802         |               | 18      | 1.05          |         |               |      |               |      |               |

|  |                         |  | Hospita | al - Cost     | by Task | . <u>.</u>    |        |               |      |               |
|--|-------------------------|--|---------|---------------|---------|---------------|--------|---------------|------|---------------|
| Task<br>Description                          | CACES % of ID No. Total |  | 1 1     |               | Wood    |               | Devens |               | Ord  |               |
|  |                         |  | Rank    | % of<br>Total | Rank    | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Replace quarry tile floor                    | 0622202                 |  | 19      | 1,05          |         |               |        |               |      |               |
| Refinish aluminum siding exterior, 2nd floor | 0415124                 |  |         |               | 2       | 5.25          |        |               |      |               |
| Refinish aluminum siding exterior, 1st floor | 0415114                 |  |         |               | 3       | 4.56          |        |               |      |               |
| Refinish sheetrock (unstippled) ceiling      | 0631304                 |  |         |               | 5       | 2.38          |        |               |      |               |
| Replacement of shingled roof                 | 0311357                 |  |         |               | 6       | 2.26          |        |               |      |               |
| Replace<br>switchgear, indoor,<br>0-600V     | 1115103                 |  |         |               | 7       | 2.21          |        |               |      |               |
| Refinish steel interior (painted) wall       | 0616304                 |  |         |               | 9       | 2.12          |        |               |      |               |
| PM chiller-air cool recip., 10-ton           | 0991452                 |  |         |               | 10      | 1.87          |        |               |      |               |
| Minor repairs -<br>shingled roof             | 0311353                 |  |         |               | 11      | 1.82          |        |               |      |               |
| Replace drinking fountain                    | 0811H07                 |  |         |               | 12      | 1.80          |        |               |      |               |
| PM and inspect motor starter, 0-600V         | 1123602                 |  |         |               | 13      | 1.75          |        |               |      |               |
| Replace 200<br>KBTU house<br>furnace (gas)   | 0981C33                 |  |         |               | 14      | 1.74          |        |               |      |               |

|   |                 | T             | <del></del> _ | al - Cost     | r <del>i —</del> | <del></del>   | Ī      |               |      |               |
|---|-----------------|---------------|---------------|---------------|------------------|---------------|--------|---------------|------|---------------|
| Task<br>Description                                       | CACES<br>ID No. | % of<br>Total | Bra           | agg           | Wood             |               | Devens |               | Ord  |               |
|   |                 |               | Rank          | % of<br>Total | Rank             | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Replace new over existing - shingled roof                 | 0311356         |               |               |               | 16               | 1.47          |        |               |      |               |
| PM and inspect<br>safety switch,<br>enclosed              | 1122102         |               |               |               | 17               | 1.45          |        |               |      |               |
| PM exhaust fan,<br>10,000 CFM                             | 09C1132         |               |               |               | 18               | 1.28          |        |               |      |               |
| Replace exhaust fan, 10,000 CFM                           | 09C1133         |               |               |               | 19               | 1.26          |        |               |      |               |
| Replace 1 HP air compressor                               | 0831113         |               |               |               | 20               | 1.26          |        |               |      |               |
| Clean and service<br>hot water heater,<br>gas/oil, 75-gal | 0814E02         |               |               |               | 21               | 1.24          |        | ·             |      |               |
| Flashing repairs -<br>shingled roof                       | 0311355         |               |               |               | 22               | 1.23          |        |               |      |               |
| Replace chiller-air cool recip.                           | 0991453         |               |               |               | 23               | 1.03          |        |               |      |               |
| Replace 20,000<br>BTU boiler (dual-fired)                 | 0981425         |               |               |               |                  |               | 8      | 2.09          |      |               |
| Replace 2-pipe fan coil unit, 200 CFM                     | 09A1914         |               |               |               |                  |               | 11     | 1.55          |      |               |
| Replace broken pipe insulation                            | 0984142         |               |               |               |                  |               | 12     | 1.53          |      |               |

| Hospital - Cost by Task                                |                 |               |      |               |      |               |      |               |      |               |  |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task<br>Description                                    | CACES<br>ID No. | % of<br>Total | Bra  | Bragg         |      | Wood          |      | Devens        |      | rd            |  |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Replace steam trap, F&T < 1"                           | 0984373         |               |      |               |      |               | 16   | 1.27          |      |               |  |  |
| PM daily ash<br>handling system                        | 0981612         |               |      |               |      |               | 17   | 1.26          |      |               |  |  |
| Replace pipe and fittings, oxygen                      | 0833213         |               |      |               |      |               | 19   | 1.17          |      | -             |  |  |
| PM replace filters<br>2-pipe fan coil<br>unit, 200 CFM | 09A1913         |               |      |               |      |               | 20   | 1.14          |      |               |  |  |
| Replace pipe and fittings, anesthesia                  | 0833113         |               |      |               |      |               | 21   | 1.13          |      |               |  |  |
| Repair steam trap,<br>F&T > 1"                         | 0984371         |               |      |               |      |               | 23   | 1.08          |      |               |  |  |
| PM clean 2-pipe<br>fan coil unit, 200<br>CFM           | 09A1912         |               |      |               |      |               | 24   | 1.02          |      |               |  |  |
| Debris removal<br>and inspection -<br>built-up roof    | 0311101         |               |      |               |      |               | 25   | 1.01          |      |               |  |  |

|   |                 |               |      | ental Cli<br>ost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|------------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                             | CACES<br>ID No. | % of<br>Total | Br   | agg                    | Wo   | ood           | Dev  | ens/          | Ord  |               |
|   |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace<br>fluorescent lighting<br>fixture      | 1131303         | 3.87          | 1    | 4.86                   | 2    | 3.25          | 4    | 2.82          | 7    | 2.73          |
| Replace vinyl asbestos tile flooring            | 062A202         | 2.97          | 4    | 2.61                   | 1    | 3.27          | 2    | 3.70          | 6    | 2.87          |
| Membrane<br>removal and<br>replacement -<br>BUR | 0311107         | 2.58          | 6    | 2.36                   | 5    | 2.50          | 3    | 3.60          | 8.   | 2.55          |
| Place new<br>membrane over<br>existing - BUR    | 0311106         | 2.15          | 7    | 2.10                   | 8    | 2.25          | 9    | 2.46          | 17   | 1.81          |
| Debris removal<br>and inspection -<br>BUR       | 0311101         | 2.06          | 9    | 1.94                   | 9    | 2.00          | 5    | 2.75          | 15   | 1.99          |
| Replace<br>switchgear, indoor<br>below 600V     | 1117103         | 1.96          | 12   | 1.64                   | 3    | 2.96          | 7    | 2.55          |      |               |
| Refinish sheetrock (unstipoled) wall            | 0611304         | 1.94          | 2    | 3.04                   | 17   | 1.36          | 22   | 1.17          |      |               |
| Replace 25,000<br>CFM multi-zone<br>unit        | 09A1134         | 1.73          | 10   | 1.88                   | 4    | 2.86          |      |               |      |               |
| M&R fluorescent lighting fixture                | 1131301         | 1.66          | 8    | 2.01                   | 15   | 1.44          | 20   | 1.26          | 32   | 1.24          |
| PM heat/cool<br>thermostat                      | 09E1111         | 1.59          | 5    | 2.47                   |      |               | 23   | 1.09          |      |               |
| Replace carpet                                  | 0629102         | 1.51          | 14   | 1.53                   | 10   | 1.79          |      |               | 12   | 2.29          |
| Flashing repairs -<br>BUR                       | 0311105         | 1.39          | 18   | 1.32                   | 16   | 1.42          | 16   | 1.66          | 29   | 1.31          |
| Minor membrane repairs - BUR                    | 0311103         | 1.36          | 19   | 1.29                   | 18   | 1.35          | 15   | 1.74          | 30   | 1.28          |

|  |                  |               |      | ental Cli<br>ost by Ta |      |               |      |               |      |               |
|--|------------------|---------------|------|------------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                  | CACES<br>ID No.  | % of<br>Total | Bra  | Bragg                  |      | Wood          |      | Devens        |      | rd            |
|  |                  |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace linoleum floor                               | 062A102          | 1.27          | 3    | 2.78                   |      |               |      |               |      |               |
| Replace CW expansion chamber                         | 0813702          | 1.23          |      |                        | 7    | 2.48          |      |               | 2    | 4.11          |
| Repair solid core<br>wood (painted)<br>interior door | 0533212          | 1.16          | 17   | 1.34                   |      |               | _    |               | 9    | 2.52          |
| Replace pipe and fittings, waste and vent            | 0812103          | 1.00          | 21   | 1.15                   |      |               | 24   | 1.07          |      |               |
| Replace sink, stainless steel                        | 0811F06          | 1.00          | 20   | 1.19                   |      |               |      |               | 23   | 1.43          |
| Replace 50,000<br>CFM dual-duct<br>unit              | 09A1244          |               | 11   | 1.65                   |      |               |      |               |      |               |
| Replace hot water heater, electric, 1,000-gal        | 0814J03          |               | 13   | 1.58                   |      |               |      |               |      |               |
| Repair 300-ton chiller, hermetic cent.               | 0991621          |               | 15   | 1.43                   |      |               |      |               |      |               |
| Replace 300-ton chiller, hermetic cent.              | 0991623          |               | 16   | 1.35                   |      |               |      |               |      |               |
| Replace formica interior wall                        | 0614105          |               | 22   | 1.12                   |      |               |      |               |      | -             |
| Replace broken pipe insulation                       | 0984142          |               | 23   | 1.07                   |      |               | 13   | 1.89          |      |               |
| Replace pneumatic thermostat                         | 09E1112          |               | 24   | 1.06                   |      |               |      |               |      |               |
| Replace drinking fountain                            | 0811 <b>H</b> 07 |               | 25   | 1.02                   |      |               |      |               |      |               |

## **Dental Clinic** Cost by Task **CACES** % of Task ID No. Total Bragg **Devens** Ord Description Wood % of % of % of % of Total Total Rank Total Rank Total Rank Rank 1.38 Unstop sink, 0811F04 26 1.02 25 stainless steel Repair hollow core 0533112 6 2.50 (painted) interior door 4.30 0981A13 1.63 1 Replace deaerator 11 Replace 2,000 0981326 12 1.54 BTU boiler (oil) Replace ceramic 1.54 25 1.03 0612805 13 tile wall PM weekly tour 0981324 14 1.48 2.000 BTU boiler (oil) Replace 100-ton 19 0991433 1.34 hermetic chiller 20 1.12 Replace hollow 0533115 core wood (painted) interior door 1.06 19 1.32 Replace 1 HP air 0831113 21 compressor 1.77 19 0831123 22 1.00 Replace vacuum pump 1 3.76 PM weekly tour 0981314 250 BTU boiler (oil) Replace 6,500 09A1214 6 2.65 CFM dual-duct unit 2.46 0991412 8 PM 20 tons

chillers ACH

recip.

|  |                 |               |      | ental Cli<br>ost by Ta |      |               |        |               |      |               |
|--|-----------------|---------------|------|------------------------|------|---------------|--------|---------------|------|---------------|
| Task<br>Description                                | CACES<br>ID No. | % of<br>Total | Bra  | agg                    | Wo   | ood           | Devens |               | Ord  |               |
|  |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Replace 2,000<br>BTU boiler (dual-<br>fired)       | 0981415         |               |      |                        |      |               | 10     | 2.33          | 10   | 2.44          |
| PM battery,<br>primary dry                         | 1283201         |               |      |                        |      |               | 11     | 2.26          |      |               |
| Refinish plaster wall                              | 0611104         |               |      |                        |      |               | 12     | 2.21          |      |               |
| PM weekly tour<br>2,000 BTU boiler<br>(dual-fired) | 0981414         |               |      |                        |      |               | 14     | 1.88          | 14   | 2.09          |
| Replace 10,000<br>CFM multi-zone<br>unit           | 09A1124         |               |      |                        |      |               | 17     | 1.64          |      |               |
| Replace 20 tons chillers ACH recip                 | 0991413         |               |      |                        |      |               | 18     | 1.51          |      |               |
| PM 50 tons<br>chillers WCH<br>recip                | 0991522         |               |      |                        |      |               | 21     | 1.25          |      |               |
| Replace 25,000<br>CFM dual-duct<br>unit            | 09A1234         |               |      |                        |      |               |        |               | 3    | 3.74          |
| Replace HW expansion chamber                       | 0814702         |               |      |                        |      |               |        |               | 4    | 3.70          |
| Replace<br>switchgear, indoor<br>above 600V        | 1117203         |               |      |                        |      |               |        |               | 5    | 3.58          |
| Refinish sheetrock (stippled) wall                 | 0611204         |               |      |                        |      |               |        |               | 11   | 2.40          |
| PM damper controller - electric                    | 09E1211         |               |      |                        |      |               |        |               | 13   | 2.20          |
| Replace damper controller - electric               | 09E1212         |               |      |                        |      |               |        |               | 16   | 1.87          |

|  |                 |               |      | ental Cli<br>ost by Ta | -    |               |      |               |      |               |
|--|-----------------|---------------|------|------------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                    | CACES<br>ID No. | % of<br>Total | Bra  | agg                    | Wo   | ood           | Dev  | vens          | Ord  |               |
|  |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace<br>transformer, dry<br>above 15,000V           | 1114203         |               |      |                        |      |               |      |               | 18   | 1.81          |
| PM 50 tons<br>chillers ACH recip                       | 0991422         |               |      |                        |      |               |      |               | 20   | 1.77          |
| Replace 50 tons chillers ACH recip                     | 0991423         |               |      |                        |      |               |      |               | 21   | 1.66          |
| Replace solid core<br>wood (painted)<br>interior door  | 0533215         |               |      |                        |      |               |      |               | 22   | 1.48          |
| Replace<br>emergency lighting<br>fixture               | 1131503         |               |      |                        |      |               |      |               | 24   | 1.41          |
| Replace interior brass lockset                         | 0582105         |               |      |                        |      |               |      |               | 26   | 1.35          |
| M&R contactors and relays                              | 1124001         |               |      |                        |      |               |      |               | 27   | 1.34          |
| PM and inspect motor starter, 0-600V                   | 1123602         |               |      |                        |      |               |      |               | 28   | 1.32          |
| Refinish solid core<br>wood (painted)<br>interior door | 0533214         |               |      |                        |      |               |      |               | 30   | 1.28          |
| Replace<br>transformer, dry<br>below 15,000V           | 1116203         |               |      |                        |      |               |      |               | 31   | 1.25          |
| Replace faucets on sink, stainless steel               | 0811F03         |               |      |                        |      |               |      |               | 33   | 1.17          |
| PM deaerator   | 0981A12         |               |      |                        |      |               |      |               | 34   | 1.15          |

|   |                 |               |      | ealth Cli<br>ost by Ta |      |               |        |               |      |               |
|---|-----------------|---------------|------|------------------------|------|---------------|--------|---------------|------|---------------|
| Task<br>Description                             | CACES<br>ID No. | % of<br>Total | Bra  | agg                    | Wood |               | Devens |               | Ord  |               |
|   |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Replace carpet                                  | 0629102         | 4.27          | 15   | 2.07                   |      |               |        |               | 1    | 9.68          |
| Replace vinyl asbestos tile flooring            | 062A202         | 3.63          | 6    | 3.12                   | 2    | 4.44          |        |               | 6    | 3.74          |
| Replace<br>fluorescent lighting<br>fixture      | 1131303         | 2.74          | 13   | 2.19                   | 20   | 1.18          |        |               | 3    | 4.42          |
| Refinish plaster wall                           | 0611104         | 2.44          | 2    | 4.61                   | 7    | 2.20          |        |               |      |               |
| Replace 10,000<br>CFM variable<br>volume unit   | 09A1524         | 2.37          |      |                        |      |               |        |               | 2    | 6.75          |
| Repair hollow core (painted) wood interior door | 0533112         | 2.16          | 1    | 4.91                   |      |               |        |               |      |               |
| Replace switchgear indoor, 0-600V               | 1115103         | 2.03          | 26   | 1.20                   | 21   | 1.12          |        |               | 7    | 3.61          |
| PM chiller-air cool recip. 15-ton               | 0991462         | 1.92          | 3    | 4.57                   |      |               |        |               |      |               |
| Replace 2-ton window A/C                        | 0991223         | 1.77          | 4    | 4.20                   |      |               |        |               |      |               |
| Membrane<br>removal &<br>replacement -<br>BUR   | 0311107         | 1.74          | 9    | 2.66                   | 5    | 2.72          |        |               |      |               |
| Place new<br>membrane over<br>existing - BUR    | 0311106         | 1.52          | 11   | 2.29                   | 6    | 2.44          |        |               |      |               |
| Replace CW expansion chamber                    | 0813702         | 1.42          |      |                        |      |               |        |               | 4    | 4.03          |
| Debris removal & inspection - BUR               | 0311101         | 1.41          | 14   | 2.17                   | 8    | 2.19          |        |               |      |               |

| Heal | th ( | Clinic |
|------|------|--------|
| Cost | bv   | Task   |

| Task<br>Description                                      | CACES<br>ID No. | % of<br>Total | Bragg |               | Wood |               | Devens |               | Ord  |               |
|--|-----------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|
|  |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Minor repairs -<br>shingled roof                         | 0311353         | 1.39          |       |               |      |               | _      |               | 9    | 2.92          |
| Repair solid core<br>(painted) wood<br>interior door     | 0533212         | 1.38          | 25    | 1.24          |      |               |        |               | 13   | 2.40          |
| Replacement of shingled roof                             | 0311357         | 1.36          |       |               |      |               |        |               | 10   | 2.60          |
| Refinish sheetrock (stippled) wall                       | 0611204         | 1.35          |       |               |      |               |        |               | 5    | 3.83          |
| Replace 6,500<br>CFM multi-zone<br>unit                  | 09A1114         | 1.33          |       |               | 1    | 5.84          |        |               |      |               |
| Repair chiller-air cool recip. 15-ton                    | 0991461         | 1.33          | 5     | 3.16          |      |               |        |               |      |               |
| PM heat/cool<br>thermostat                               | 09E1111         | 1.26          | 18    | 1.68          | 25   | 1.03          |        |               |      |               |
| PM 2-ton window<br>A/C                                   | 0991222         | 1.26          | 7     | 2.92          |      |               |        |               |      |               |
| M&R fluorescent lighting fixture                         | 1131301         | 1.21          |       |               |      |               |        |               | 15   | 2.01          |
| Refinish painted concrete block exterior wall, 1st floor | 0415914         | 1.19          | 8     | 2.84          |      |               |        |               |      |               |
| Replace new over existing shingled roof                  | 0311356         | 1.19          |       |               |      |               |        |               | 11   | 2.56          |
| Replace forced<br>draft fan, 10,000<br>CFM               | 09B2113         | 1.16          |       |               |      |               |        |               | 8    | 3.30          |

|  |                 |               |      | ealth Cli<br>ost by Ta |      |               |        |               |      |               |
|--|-----------------|---------------|------|------------------------|------|---------------|--------|---------------|------|---------------|
| Task<br>Description                                    | CACES<br>ID No. | % of<br>Total | Br   | agg                    | W    | ood           | Devens |               | Ord  |               |
|  |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Replace chiller air cool recip. 15-ton                 | 0991463         | 1.05          | 10   | 2.49                   |      |               |        |               |      |               |
| Replace hollow<br>core (painted)<br>wood interior door | 0533115         |               | 12   | 2.21                   |      |               |        |               |      |               |
| Replace hot water<br>heater, electric,<br>120-gal      | 0814Н03         |               | 16   | 1.89                   |      |               |        |               |      |               |
| Repair plaster wall                                    | 0611102         |               | 19   | 1.63                   |      |               |        |               |      |               |
| Flashing repairs-<br>BUR                               | 0311105         |               | 20   | 1.48                   | 14   | 1.54          |        |               |      |               |
| Minor membrane repairs - BUR                           | 0311103         |               | 21   | 1.44                   | 16   | 1.47          |        |               |      |               |
| Refinish hollow core (painted) wood interior door      | 0533114         |               | 22   | 1.42                   |      |               |        |               |      |               |
| Refinish plaster ceiling                               | 0631104         |               | 23   | 1.29                   |      |               |        |               |      |               |
| Replace 200<br>KBTU house<br>furnace (gas)             | 0981C33         |               | 24   | 1.27                   |      |               |        |               |      |               |
| Replace linoleum floor                                 | 062A102         |               | 27   | 1.19                   |      |               |        |               |      |               |
| Replace drinking fountain                              | 0811H07         |               | 28   | 1.14                   | 23   | 1.05          |        |               |      |               |
| PM & inspect<br>safety switch,<br>enclosed             | 1122102         |               | 29   | 1.02                   |      |               |        |               |      |               |

|   |                 |               |      | ealth Cli<br>ost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|------------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                 | CACES<br>ID No. | % of<br>Total | Bra  | Bragg                  |      | Wood          |      | Devens        |      | rd            |
|   |                 |               | Rank | % of<br>Total          | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM weekly tour,<br>250 BTU boiler<br>(oil)          | 0981314         |               |      |                        | 9    | 2.03          |      |               |      |               |
| Replace chiller-air cool recip. 10-ton              | 0991453         |               |      |                        | 10   | 1.98          |      |               |      |               |
| Replace wall radiator, finned 10' section           | 0981Н01         |               |      |                        | 12   | 1.86          |      |               |      |               |
| PM annual 6,500<br>CFM multi-zone<br>unit           | 09A1112         |               |      |                        | 13   | 1.59          |      |               |      |               |
| Repair chiller-air cool recip. 10-ton               | 0991451         |               |      |                        | 15   | 1.52          |      |               |      |               |
| Replace cond. rcvr 10-15 gal                        | 0984464         |               |      |                        | 17   | 1.47          |      |               |      |               |
| Replace ceramic tile wall                           | 0612805         |               |      |                        | 18   | 1.32          |      |               | 29   | 1.16          |
| PM/replace filters<br>6,500 CFM multi-<br>zone unit | 09A1113         |               |      |                        | 19   | 1.18          |      |               |      |               |
| Replace pipe & fittings, waste & vent               | 0812103         |               |      |                        | 22   | 1.07          |      |               |      |               |
| Replace wood louvered interior door                 | 0534235         |               |      |                        | 24   | 1.04          |      |               |      |               |
| Refinish aluminum siding-exterior, 2nd floor        | 0415124         |               |      |                        | 26   | 1.00          |      |               |      | _             |
| PM forced-draft fan, 10,000 CFM                     | 09B2112         |               |      |                        |      |               |      |               | 12   | 2.54          |
| Replace vinyl interior wall                         | 0614405         |               |      |                        |      |               |      |               | 14   | 2.25          |

| Health Clinic<br>Cost by Task                          |                 |               |       |               |      |               |        |               |      |               |
|--|-----------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|
| Task<br>Description                                    | CACES<br>ID No. | % of<br>Total | Bragg |               | Wood |               | Devens |               | Ord  |               |
|  |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Flashing repairs-<br>shingled roof                     | 0311355         |               |       |               |      |               |        |               | 16   | 1.91          |
| CK operation time control clock                        | 1261102         |               |       |               |      |               |        |               | 17   | 1.68          |
| Replace 2,000<br>BTU (dual-fired)                      | 0981415         |               |       |               |      |               |        |               | 18   | 1.67          |
| Replace HW expansion chamber                           | 0814702         |               |       |               |      |               |        |               | 19   | 1.50          |
| Replace time control clock                             | 1261103         |               |       |               |      |               |        |               | 20   | 1.45          |
| PM weekly tour<br>2,000 BTU boiler<br>(dual-fired)     | 0981414         |               |       |               |      |               |        |               | 21   | 1.42          |
| Replace solid core (painted) wood interior door        | 0533215         |               |       |               |      |               |        |               | 22   | 1.41          |
| PM annual 10,000<br>CFM variable vol<br>unit           | 09A1522         |               |       |               |      |               |        |               | 23   | 1.34          |
| Replace brass interior lockset                         | 0582105         |               |       |               |      |               |        |               | 24   | 1.25          |
| Replace<br>transformer, dry<br>above 15,000V           | 1114203         |               |       |               |      |               |        |               | 25   | 1.23          |
| Refinish solid core<br>(painted) wood<br>interior door | 0533214         |               |       |               |      |               |        |               | 26   | 1.23          |
| PM/replace filters<br>10,000 CFM var.<br>vol. unit     | 09A1523         |               |       |               |      |               |        |               | 27   | 1.17          |
| Debris removal & inspect shingled roof                 | 0311351         |               |       |               |      |               |        |               | 28   | 1.17          |

| Health Clinic Cost by Task |                 |               |      |               |      |               |      |               |      |               |  |  |
|----------------------------|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task<br>Description        | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens ens       | O    | rd            |  |  |
|                            |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Replace<br>receptacle/plug | 1127202         |               |      |               |      |               |      |               | 30   | 1.03          |  |  |

| General | Purpose Adn | nin |
|---------|-------------|-----|
| Co      | st by Task  |     |

|  |                 |               | C    | ost by 18     | ISK  |               |      |               |      |               |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Bra  | Bragg         |      | Wood          |      | Devens        |      | Ord           |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace carpet                                       | 0629102         | 8.62          | 1    | 7.45          | 1    | 4.88          | 1    | 22.28         | 5    | 3.87          |  |
| Replace vinyl asbestos tile flooring                 | 062A202         | 4.57          | 3    | 3.00          | 2    | 3.73          |      |               | 1    | 7.51          |  |
| Replace fluorescent lighting fixture                 | 1131303         | 2.88          | 2    | 3.28          | 4    | 2.70          | 9    | 2.10          | 8    | 3.00          |  |
| Refinish wood<br>(multi-coat)<br>exterior, 1st floor | 0415F14         | 2.72          |      |               |      |               |      |               | 2    | 5.69          |  |
| Replace<br>switchgear, indoor<br>0-600V              | 1115103         | 2.16          |      |               |      |               | 18   | 1.14          | 6    | 3.71          |  |
| Replacement of shingled roof                         | 0311357         | 2.12          | 14   | 1.04          | 8    | 1.50          | 13   | 1.39          | 7    | 3.26          |  |
| Minor repairs-<br>shingled roof                      | 0311353         | 1.94          |      |               | i i  | 1,21          | 12   | 1.47          | 9    | 2.94          |  |
| Refinish sheetrock (stippled) wall                   | 0611204         | 1.90          |      |               |      |               |      |               | 3    | 4.18          |  |
| Replace 200<br>KBTU house<br>furnace (gas)           | 0981C33         | 1.84          |      |               |      |               |      |               | 4    | 4.03          |  |
| Replace new over existing - shingled roof            | 0311356         | 1.68          |      |               |      |               | 14   | 1.31          | 11   | 2.57          |  |
| PM weekly tour<br>250 BTU boiler<br>(gas)            | 0981115         | 1.61          |      |               |      |               | 2    | 7.90          |      |               |  |
| M&R fluorescent lighting fixture                     | 1131301         | 1.27          | 12   | 1.36          | 12   | 1.20          |      |               | 22   | 1.37          |  |
| Flashing repairs-<br>shingled roof                   | 0311355         | 1.26          |      |               |      |               |      |               | 15   | 1.93          |  |

# General Purpose Admin Cost by Task

| <u> </u>   |                 |               |      | ost by 1      |      |               |      |               |      |               |  |  |  |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|--|--|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens ens       | 0    | rd            |  |  |  |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |  |  |
| Refinish sheetrock (unstippled) wall                 | 0611304         | 1.26          | 7    | 2.11          | 7    | 2.13          |      |               | 26   | 1.09          |  |  |  |  |
| Refinish sheetrock (stippled) ceiling                | 0631204         | 1.25          |      |               |      |               |      |               | 10   | 2.77          |  |  |  |  |
| PM 25 KBTU<br>house furnace<br>(gas)                 | 0981C12         | 1.21          |      |               |      |               | 15   | 1.24          | 14   | 2.11          |  |  |  |  |
| Refinish wood<br>(multi-coat)<br>exterior, 2nd floor | 0415F24         | 1.06          |      |               |      |               |      |               | 12   | 2.29          |  |  |  |  |
| Replace pipe & fittings, copper (fuel oil)           | 0923103         |               | 4    | 2.49          |      |               |      |               |      |               |  |  |  |  |
| Total panel replacement - metai roof                 | 0311367         |               | 5    | 2.46          |      |               |      |               |      |               |  |  |  |  |
| Replace gasoline-<br>powered generator<br>component  | 1281103         |               | 6    | 2.18          |      |               |      |               |      |               |  |  |  |  |
| Replace<br>switchgear, indoor<br>below 600V          | 1117103         |               | 8    | 1.70          |      |               |      |               |      |               |  |  |  |  |
| PM heat/cool<br>thermostat                           | 09E1111         |               | 9    | 1.55          | 15   | 1.10          |      |               |      |               |  |  |  |  |
| Replace hollow core (painted) wood interior door     | 0533112         |               | 10   | 1.54          | 13   | 1.19          |      |               |      |               |  |  |  |  |
| Refinish aluminum siding exterior, 1st floor         | 0415114         |               | 11   | 1.42          | 3    | 3.37          |      |               |      |               |  |  |  |  |
| Refinish panel<br>(Jaminated) wall                   | 0615604         |               | 13   | 1.12          |      |               |      |               |      |               |  |  |  |  |

|  |                 |               |      | l Purpos<br>ost by Ta |      |               |      |               |      |               |
|--|-----------------|---------------|------|-----------------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                      | CACES<br>ID No. | % of<br>Total | Br   | agg                   | We   | ood           | De   | vens          | O    | rd            |
|  |                 |               | Rank | % of<br>Total         | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace hot water<br>heater, electric,<br>120-gal        | 0814H03         |               | 15   | 1.04                  |      |               |      |               |      |               |
| Replace solid core (painted) wood interior door          | 0533212         |               | 16   | 1.02                  |      |               |      |               |      |               |
| Replace 6,500<br>CFM dual-duct<br>unit                   | 09A1214 .       |               |      |                       | 5    | 2.36          |      |               |      |               |
| Refinish aluminum siding exterior, 2nd floor             | 0415124         |               |      |                       | 6    | 2.29          |      |               |      |               |
| PM chiller-air cool recip. 5-ton                         | 0991442         |               |      |                       | 9    | 1.41          |      |               |      |               |
| Replace fabric interior partitions                       | 0522105         |               |      |                       | 10   | 1.26          |      |               |      |               |
| PM battery, secondary dry                                | 1283401         |               |      |                       | 14   | 1.13          |      |               |      |               |
| PM chiller-air cool<br>recip 10-ton                      | 0991452         |               |      |                       | 16   | 1.08          |      |               |      |               |
| Refinish sheetrock (unstippled) ceiling                  | 0631304         |               |      |                       | 17   | 1.97          | 3    | 3.24          |      |               |
| Refinish wood frame (painted) operable window, 2nd floor | 0431321         |               |      |                       |      |               | 4    | 2.85          |      |               |
| Replace cork tile wall                                   | 0619305         |               |      |                       |      |               | 5    | 2.69          |      |               |
| Replace wailpaper  | 0614505         |               |      |                       |      |               | 6    | 2.66          |      |               |
| PM weekly tour<br>250 BTU boiler<br>(oil)                | 0981314         |               |      |                       |      |               | 7    | 2.41          |      |               |

# General Purpose Admin Cost by Task

| Task<br>Description  |         |  | Bra  | agg           | Wood |               | Dev  | ens/          | Ord  |               |
|--|---------|--|------|---------------|------|---------------|------|---------------|------|---------------|
|  |         |  | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish plywood (painted) wall                            | 0615104 |  |      |               |      |               | 8    | 2.19          |      |               |
| Repair formica-<br>vinyl exterior, 2nd<br>floor            | 0415O22 |  |      |               |      |               | 10   | 2.00          |      |               |
| Replace 250 BTU boiler (gas).                              | 0981116 |  |      |               |      |               | 11   | 1.86          |      |               |
| Refinish plaster wall                                      | 0611104 |  |      |               |      |               | 16   | 1.22          |      |               |
| Replace formica-<br>vinyl exterior, 2nd<br>floor           | 0415O25 |  |      |               |      |               | 17   | 1.20          |      |               |
| Replace hot water heater, gas/oil, 75-gal                  | 0814E03 |  |      |               |      |               | 19   | 1.11          |      |               |
| Replace wood frame (painted) operable window, 2nd floor    | 0431325 |  |      |               |      |               | 20   | 1.02          |      |               |
| PM 200 KBTU<br>house furnace<br>(gas)                      | 0981C32 |  |      |               |      |               |      |               | 13   | 2.16          |
| Refinish double pane wood frame operable window, 2nd floor | 0431824 |  |      |               |      |               |      |               | 16   | 1.86          |
| Replace CW expansion chamber                               | 0813702 |  |      |               |      |               |      |               | 17   | 1.85          |
| Replace<br>switchgear, indoor<br>above 600V                | 1117203 |  |      |               |      |               |      |               | 18   | 1.74          |

# General Purpose Admin Cost by Task

|  |                 |               |       | ost by 12     |      |               |        |               |      |               |
|--|-----------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|
| Task<br>Description  | CACES<br>ID No. | % of<br>Total | Bragg |               | Wood |               | Devens |               | Ord  |               |
|  |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Replace double pane wood frame operable window, 1st floor  | 0431815         |               |       |               |      |               |        |               | 19   | 1.61          |
| Replace brass interior lockset                             | 0582105         |               |       |               |      |               |        |               | 20   | 1.48          |
| Refinish double pane wood frame operable window, 1st floor | 0431814         |               |       |               |      |               |        |               | 21   | 1.37          |
| Replace pipe or gutter                                     | 0822102         |               |       |               |      |               |        |               | 23   | 1.24          |
| Debris removal & inspect shingled roof                     | 0311351         |               |       |               |      |               |        |               | 24   | 1.17          |
| Replace drinking fountain                                  | 0811H07         |               |       |               |      |               |        |               | 25   | 1.13          |
| Replace pipe & fittings, waste & vent                      | 0812103         |               |       |               |      |               |        |               | 27   | 1.02          |
| Replace 200<br>KBTU house<br>furnace (gas)                 | 0981C31         |               |       |               |      |               |        |               | 28   | 1.01          |

|   |                 |               |      | lousing lost by Ta | 1900-1950<br>ask | 0             |      |               |      |               |
|---|-----------------|---------------|------|--------------------|------------------|---------------|------|---------------|------|---------------|
| Task Description                                      | CACES<br>ID No. | % of<br>Total | Bra  | agg                | Wo               | ood           | Dev  | vens          | O    | rd            |
|   |                 |               | Rank | % of<br>Total      | Rank             | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish plaster wall                                 | 0611104         | 6.16          | 2    | 4.47               |                  |               | 2    | 12.41         |      |               |
| PM chiller-air cool, recip. 5-ton                     | 0991442         | 4.93          | 1    | 6.26               |                  |               |      |               |      |               |
| Replace hot water<br>heater, electric,<br>120-gal     | 0814Н03         | 3.41          | 3    | 4.34               |                  |               |      |               |      |               |
| Refinish plaster ceiling                              | 0631104         | 3.34          | 4    | 2.95               |                  |               | 5    | 4.77          |      |               |
| PM weekly tour<br>250 BTU boiler<br>(gas)             | 0981115         | 3.17          |      |                    |                  |               | 1    | 14.88         |      |               |
| Refinish stucco<br>exterior wall, 2nd<br>floor        | 0415C24         | 2.25          | 5    | 2.87               |                  |               |      |               |      |               |
| Replace chiller air cool recip., 5-ton                | 0991443         | 2.08          | 6    | 2.65               |                  |               |      |               |      |               |
| Replace maple floor                                   | 0625203         | 2.03          | 10   | 2.27               |                  |               | 18   | 1.12          |      |               |
| Refinish stucco<br>exterior wall, 1st<br>floor        | 0415C14         | 2.01          | 7    | 2.56               |                  |               |      |               |      |               |
| Replace<br>switchgear, indoor<br>below 600V           | 1117103         | 1.97          | 8    | 2.50               |                  |               |      |               |      |               |
| Replace wood<br>(unfinished)<br>ceiling               | 0635205         | 1.90          | 9    | 2.42               |                  |               |      |               |      |               |
| Replace hot water<br>heater, gas/oil<br>1,000 GPH rec | 0814F03         | 1.72          |      |                    |                  |               | 3    | 18.09         |      |               |

|   |                 |               |      | Housing I     | 1900-1950<br>ask | 0             |      |               |      |               |
|---|-----------------|---------------|------|---------------|------------------|---------------|------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo               | ood           | Dev  | vens          | o    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank             | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish wood<br>frame (painted)<br>operable window,<br>2nd floor | 0431324         | 1.71          | 15   | 1.60          |                  |               | 9    | 2.11          |      |               |
| Repair solid core<br>wood (painted)<br>interior door              | 0533212         | 1.67          | 11   | 2.12          |                  |               |      |               |      |               |
| Repair chiller-air cool recip., 5-ton                             | 0991441         | 1.45          | 12   | 1.84          |                  |               |      |               | -    |               |
| Total roof replacement - tile roof                                | 0311337         | 1.34          | 13   | 1.71          |                  |               |      |               |      |               |
| Clean & service<br>hot water heater<br>gas/oil 1,000 GPH<br>rec   | 0814F02         | 1.34          |      |               |                  |               | 4    | 6.29          |      |               |
| PM single-zone<br>draw thru 1,000<br>CFM                          | 09A1C52         | 1.33          | 14   | 1.69          |                  |               |      |               |      |               |
| Replace pipe or gutter  | 0822102         | 1.16          | 21   | 1.19          |                  |               | 19   | 1.03          |      |               |
| Replace single-<br>zone draw thru<br>1,000 CFM                    | 09A1C54         | 1.14          | 16   | 1.45          |                  |               |      |               |      |               |
| Minor replacement - tile roof                                     | 0311334         | 1.13          | 17   | 1.44          |                  |               |      |               |      |               |
| Repair plaster wall   | 0611102         | 1.09          |      |               |                  |               | 8    | 2.13          |      |               |
| Replace<br>dishwasher   | 0841102         | 1.09          | 18   | 1.38          |                  |               |      |               |      |               |
| Sand & refinish maple floor                                       | 0625202         | 1.07          | 22   | 1.19          |                  |               |      |               |      |               |

|  |                 |               |      | lousing lost by Ta | 1900-1950<br>ask | )             |      |               |      |               |
|--|-----------------|---------------|------|--------------------|------------------|---------------|------|---------------|------|---------------|
| Task Description                                       | CACES<br>ID No. | % of<br>Total | Bra  | agg                | We               | ood           | Dev  | ens ens       | 0:   | rd            |
|  |                 |               | Rank | % of<br>Total      | Rank             | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace solid core<br>wood (painted)<br>interior door  | 0533215         |               | 19   | 1.25               |                  |               |      |               |      |               |
| Refinish aluminum storm window, 2nd floor              | 0434124         |               | 20   | 1.23               |                  |               |      |               |      |               |
| Refinish wood trimming (interior)                      | 0561104         |               | 23   | 1.11               |                  |               | -    |               |      |               |
| Refinish solid core<br>wood (painted)<br>interior door | 0533214         |               | 24   | 1.03               |                  |               | •    |               |      |               |
| Refinish clay<br>block (painted)<br>wall               | 0612204         |               | 25   | 1.01               |                  |               |      |               |      |               |
| Replace 250 BTU boiler (gas)                           | 0981116         |               |      |                    |                  |               | 6    | 3.48          |      |               |
| Replace wood parquetry floor                           | 0625103         |               |      |                    |                  |               | 7    | 3.09          |      |               |
| Replacement of shingled roof                           | 0311357         |               |      |                    |                  |               | 10   | 1.63          |      |               |
| Replace ceramic tile wall                              | 0612805         |               |      |                    |                  |               | 11   | 1.56          |      |               |
| Replace 250 BTU boiler (gas)                           | 0981111         |               |      |                    |                  |               | 12   | 1.49          |      |               |
| Minor repairs-<br>shingled roof                        | 0311353         |               |      |                    |                  |               | 13   | 1.45          |      |               |
| Refinish wood<br>(finished) ceiling                    | 0635104         |               |      |                    |                  |               | 14   | 1.45          |      |               |
| Replace new over existing - shingled roof              | 0311356         |               |      |                    |                  |               | 15   | 1.29          |      |               |

|   | Family Housing 1900-1950<br>Cost by Task |               |      |               |      |               |      |               |      |               |  |  |  |
|---|--|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|--|
| Task Description                            | CACES<br>ID No.                          | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens/          | 0    | rd            |  |  |  |
|   |  |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |  |
| Replace<br>incandescent<br>lighting fixture | 1131103                                  |               |      |               |      |               | 17   | 1.22          |      |               |  |  |  |

# Family Housing 1951--Cost by Task

| Task Description                                | CACES   | % of  |      |               |      |               |      | <del></del>   |      |               |
|---|---------|-------|------|---------------|------|---------------|------|---------------|------|---------------|
|   | ID No.  | Total | Bra  | agg           | Wo   | ood           | Dev  | vens          | Ord  |               |
|   |         |       | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish plaster wall                           | 0611104 | 5.54  |      |               |      |               |      |               | 1    | 12.81         |
| Refinish sheetrock (unstippled) wall            | 0611304 | 5.24  | 1    | 8.40          | 1    | 6.07          | 1    | 12.66         |      |               |
| Replace carpet                                  | 0629102 | 3.39  |      |               |      |               |      |               | 2    | 7.94          |
| Replace vinyl asbestos tile flooring            | 062A202 | 2.89  | 6    | 2.31          |      |               | 3    | 4.98          | 6    | 3.27          |
| PM chiller-air cool recip., 5-ton               | 0991442 | 2.53  | 2    | 5.13          | 2    | 5.96          |      |               |      |               |
| Repair hollow core (painted) wood interior door | 0533112 | 2.26  | 4    | 2.78          | 3    | 4.71          | 10   | 2.78          | 17   | 1.42          |
| PM 100 KBTU<br>house furnace<br>(gas)           | 0981C22 | 2.09  |      |               |      |               | 5    | 4.17          | 4    | 3.53          |
| Replace<br>dishwasher                           | 0841102 | 2.04  | 10   | 1.79          | 14   | 1.57          | 9    | 2.96          | 11   | 2.14          |
| Refinish sheetrock (unstippled) ceiling         | 0631304 | 2.02  | 3    | 3.08          | 8    | 2.88          | 2    | 5.96          |      |               |
| Refinish plaster ceiling                        | 0631104 | 1.99  |      |               |      |               |      |               | 3    | 4.25          |
| Replacement of shingled roof                    | 0311357 | 1.84  | 11   | 1.69          | 12   | 1.99          | 23   | 1.07          | 10   | 2.15          |
| Refinish stucco<br>exterior wall, 2nd<br>floor  | 0415C24 | 1.64  |      |               |      |               |      |               | 5    | 3.33          |
| Refinish stucco<br>exterior wall, 1st<br>floor  | 0415C14 | 1.63  |      |               |      |               |      |               | 7    | 3.20          |
| Minor repairs shingled roof                     | 0311353 | 1.58  | 14   | 1.38          | 16   | 1.51          |      |               | 13   | 1.93          |

| Family Housing 1951 Cost by Task                          |                 |               |      |               |      |               |        |               |      |               |  |  |
|---|-----------------|---------------|------|---------------|------|---------------|--------|---------------|------|---------------|--|--|
| Task Description  | CACES<br>ID No. | % of<br>Total | Br   | agg           | Wo   | ood           | Devens |               | Ord  |               |  |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |  |  |
| Replace 100<br>KBTU house<br>furnace (gas)                | 0981C23         | 1.54          |      |               |      |               | 8      | 3.06          | 8    | 2.58          |  |  |
| Replace hot water<br>heater, gas/oil, 75-<br>gal          | 0814E03         | 1.34          | 12   | 1.67          |      |               | 13     | 2.04          |      |               |  |  |
| Place new over<br>existing - shingled<br>roof             | 0311356         | 1.33          | 18   | 1.11          | 21   | 1.30          |        |               | 14   | 1.68          |  |  |
| Replace<br>switchgear, indoor<br>below 600V               | 1117103         | 1.28          | 8    | 2.12          | 11   | 2.00          |        |               |      |               |  |  |
| Replace wood<br>(unfinished)<br>ceiling                   | 0635205         | 1.21          | 5    | 2.41          |      |               |        |               |      |               |  |  |
| Clean & service<br>hot water heater,<br>gas/oil, 30-gal   | 0814D02         | 1.18          |      |               |      |               | 19     | 1.39          | 12   | 2.10          |  |  |
| Clean and service<br>hot water heater,<br>gas/oil, 75-gal | 0814E02         | 1.08          | 15   | 1.26          |      |               | 14     | 1.83          |      |               |  |  |
| Replace chiller air cool recip., 5-ton                    | 0991443         | 1.07          | 7    | 2.17          | 9    | 2.38          |        |               |      |               |  |  |
| Flashing repairs-<br>shingled roof                        | 0311355         | 1.03          |      |               | 27   | 1.02          |        |               | 20   | 1.26          |  |  |
| Replace<br>receptacle/plug                                | 1127202         | 1.01          |      |               |      |               |        |               | 19   | 1.36          |  |  |
| Replace maple floor                                       | 0625203         | 1.00          | 9    | 1.88          | 18   | 1.51          |        |               |      |               |  |  |
| Repair chiller-air cool recip., 5-ton                     | 0991441         |               | 13   | 1.51          | 15   | 1.56          |        |               |      |               |  |  |

| Family | Hou  | ısing | 1951 |
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| Task Description                                    | CACES<br>ID No. | % of<br>Total | Bragg |               | Wo   | ood           | Dev  | ens           | O    | rd            |
|---|-----------------|---------------|-------|---------------|------|---------------|------|---------------|------|---------------|
|   |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace hollow core (painted) wood interior door    | 0533115         |               | 16    | 1.25          | 17   | 1.51          | 20   | 1.26          |      |               |
| Replace linoleum floor                              | 062A102         |               | 17    | 1.17          |      |               |      |               |      |               |
| PM heat/cool<br>thermostat                          | 09E1111         |               | 19    | 1.08          |      |               |      |               |      |               |
| Replace exhaust fan, 10,000 CFM                     | 09C1133         |               |       |               | 4    | 3.21          |      |               |      |               |
| Replace vinyl sheet flooring                        | 062A402         |               |       |               | 5    | 3.11          |      |               |      |               |
| Refinish aluminum siding, 1st floor                 | 0415114         |               |       |               | 6    | 3.10          |      |               |      |               |
| PM exhaust fan,<br>10,000 CFM                       | 09C1132         |               |       |               | 7    | 2.98          |      |               |      |               |
| Replace 100<br>KBTU house<br>furnace (oil)          | 0981D23         |               |       |               | 10   | 2.13          |      |               |      |               |
| PM 100 KBTU<br>house furnace (oil)                  | 0981D22         |               |       |               | 13   | 1.79          |      |               |      |               |
| Refinish aluminum frame screen, 1st floor           | 0434614         |               |       |               | 19   | 1.42          |      |               |      |               |
| Refinish hollow core (painted) wood interior door   | 0533114         |               |       |               | 20   | 1.36          |      |               |      |               |
| Replace aluminum (pln & anodized) screen/storm door | 0426112         |               |       |               | 22   | 1.29          |      |               |      |               |
| Replace aluminum frame screen, 1st floor            | 0431615         |               |       |               | 23   | 1.28          |      |               |      |               |

| Family | H  | ous | ing | 1951 |
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| Cost by Task                                |                 |               |      |               |      |               |      |               |      |               |  |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                            | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | Ord  |               |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Refinish aluminum panel ceiling             | 0636104         |               |      |               | 24   | 1.19          |      |               |      |               |  |
| Replace 200<br>KBTU house<br>furnace (oil)  | 0981D33         |               |      |               | 25   | 1.16          |      |               |      |               |  |
| Replace ceramic tile wall                   | 0612805         |               |      |               | 26   | 1.11          | 22   | 1.13          |      |               |  |
| Membrane<br>removal &<br>replacement BUR    | 0311107         | -             |      |               |      |               | 4    | 4.53          |      |               |  |
| Debris removal & inspection - BUR           | 0311101         |               |      |               |      |               | 6    | 3.63          |      |               |  |
| Place new<br>membrane over<br>existing BUR  | 0311106         |               |      |               |      |               | 7    | 3.09          |      |               |  |
| Minor membrane repairs BUR                  | 0311103         |               |      |               |      |               | 11   | 2.23          |      |               |  |
| Flashing repairs<br>BUR                     | 0311105         |               |      |               |      |               | 12   | 2.13          |      |               |  |
| Repair 100 KBTU<br>house furnace<br>(gas)   | 0981C21         |               |      |               |      |               | 15   | 1.69          | 18   | 1.40          |  |
| Replace aluminum operable window, 1st floor | 0431115         |               |      |               |      |               | 16   | 1.49          |      |               |  |
| General M&R on dishwasher                   | 0841101         |               |      |               |      |               | 17   | 1.48          | 23   | 1.04          |  |
| Refinish concrete blk (painted) wall        | 0612404         |               |      |               |      |               | 18   | 1.47          |      |               |  |
| Replace fluorescent lighting fixture        | 1131303         |               |      |               |      |               | 21   | 1.22          |      |               |  |

| Family Housing 1951<br>Cost by Task       |                 |               |       |               |      |               |        |               |      |               |  |
|---|-----------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|--|
| Task Description                          | CACES<br>ID No. | % of<br>Total | Bragg |               | Wood |               | Devens |               | O    | rd            |  |
|   |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |  |
| Repair sheetrock<br>(unstippled) wall     | 0611302         |               |       |               |      |               | 24     | 1.05          |      |               |  |
| Repair plaster wall                       | 0611102         |               |       |               |      |               |        |               | 9    | 2.18          |  |
| Refinish sheetrock (stippled) wall        | 0611204         |               |       |               |      |               |        |               | 15   | 1.52          |  |
| PM weekly tour<br>250 BTU boiler<br>(gas) | 0981115         |               |       |               |      |               |        |               | 16   | 1.51          |  |
| Replace CW expansion chamber              | 0813702         |               |       |               | _    |               |        |               | 21   | 1.14          |  |
| M&R<br>receptacle/plug                    | 1127201         |               |       |               |      |               |        |               | 22   | 1.09          |  |
| Replace wiring device, switch             | 1127102         |               |       |               |      |               |        |               | 24   | 1.01          |  |

| Family | Housin  | ng (Capehart) |
|--------|---------|---------------|
|        | Cost by | y Task        |

| Cost by Task                                    |                 |               |      |               |      |               |      |               |      |               |  |  |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task<br>Description                             | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens           | O    | rd            |  |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Refinish sheetrock (unstippled) wall            | 0611304         | 6.63          | 1    | 7.69          | 1    | 7.51          | 1    | 14.82         | 17   | 1.53          |  |  |
| PM chiller-air cool recip., 5-ton               | 0991442         | 3.57          | 3    | 3.28          | 2    | 6.09          |      |               |      |               |  |  |
| Repair hollow core (painted) wood interior door | 0533112         | 3.21          | 4    | 3.03          | 4    | 3.80          |      |               | 6    | 3.13          |  |  |
| Replace<br>switchgear, indoor<br>below 600V     | 1117103         | 2.13          | 5    | 2.84          | 8    | 2.56          |      |               |      |               |  |  |
| Refinish sheetrock (unstippled) ceiling         | 0631304         | 2.07          |      |               | 6    | 3.06          | 2    | 6.31          |      |               |  |  |
| Replace hot water heater, electric, 120-gal     | 0814Н03         | 1.85          | 2    | 6.05          |      |               |      |               |      |               |  |  |
| Membrane<br>removal and<br>replacement -<br>BUR | 0311107         | 1.82          | 6    | 2.42          |      |               |      |               | 2    | 4.21          |  |  |
| PM 100 KBTU<br>house furnace<br>(gas)           | 0981C22         | 1.81          |      |               | 18   | 1.21          | 3    | 5.06          | 4    | 3.58          |  |  |
| Replace exhaust fan, 10,000 CFM                 | 09C1133         | 1.76          |      |               | 3    | 4.06          |      |               |      |               |  |  |
| PM exhaust fan,<br>10,000 CFM                   | 09C1132         | 1.64          |      |               | 5    | 3.78          |      |               |      |               |  |  |
| Replace<br>dishwasher                           | 0841102         | 1.62          | 8    | 2.15          | 10   | 1.83          | 20   | 1,17          |      |               |  |  |
| Replace vinyl sheet flooring                    | 062A402         | 1.49          |      |               | 7    | 2.84          |      |               |      |               |  |  |
| Debris removal & inspection - BUR               | 0311101         | 1.45          | 10   | 1.98          |      |               |      |               | 5    | 3.29          |  |  |

| <b>Family</b> | Hou  | sing | (Capehart) |
|---------------|------|------|------------|
|               | Cost | by ' | Task       |

| Task<br>Description                              | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens ens       | Ord  |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Place new<br>membrane over<br>existing - BUR     | 0311106         | 1.43          | 9    | 2.10          |      |               |      |               | 7    | 2.98          |
| Replace chiller -<br>air cool recip., 5-<br>ton  | 0991443         | 1.43          | 14   | 1.39          | 9    | 2.38          |      |               |      | !             |
| Replace 100<br>KBTU house<br>furnace (gas)       | 0981C23         | 1.35          |      |               |      |               | 5    | 3.71          | 9    | 2.61          |
| Replace maple floor                              | 0625203         | 1.34          | 19   | 1.29          | 11   | 1.82          |      |               |      |               |
| Replace hollow core (painted) wood interior door | 0533115         | 1.23          | 15   | 1.36          | 17   | 1.21          |      |               | 19   | 1.41          |
| Replace wood parquetry floor                     | 0625103         | 1.21          | 11   | 1.94          |      |               | 17   | 1.27          | 10   | 2.60          |
| Refinish sheetrock (stippled) wall               | 0611204         | 1.06          |      |               |      |               |      |               | 1    | 4.65          |
| Replace hot water<br>heater, gas/oil,<br>75-gal  | 0814E03         | 1.05          |      |               | 22   | 1.04          | 6    | 3.53          |      |               |
| Replacement of shingled roof                     | 0311357         | 1.02          |      |               | 14   | 1.47          | 8    | 2.54          |      |               |
| Refinish plaster ceiling                         | 0631104         |               | 7    | 2.19          |      |               |      |               | 16   | 1.58          |
| Repair wood louvered interior door               | 0534232         |               | 12   | 1.45          |      |               |      |               |      |               |
| Refinish concrete<br>block (painted)<br>wall     | 0612404         |               | 13   | 1.42          |      |               |      |               |      |               |
| Flashing repairs -<br>BUR                        | 0311105         |               | 16   | 1.35          |      |               |      |               | 11   | 2.16          |

# Family Housing (Capchart) Cost by Task

| Cost by Task  |                 |     |      |               |      |               |      |               |      |               |  |
|---|-----------------|-----|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task<br>Description                                 | CACES<br>ID No. | P I |      | agg           | Wo   | ood           | Dev  | ens           | Ord  |               |  |
|   |                 |     | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Minor membrane repairs - BUR                        | 0311103         |     | 17   | 1.31          |      |               |      |               | 12   | 2.12          |  |
| Repair aluminum<br>(P/A) exterior<br>doors          | 0426112         |     | 18   | 1.31          |      | 19            | 1.17 |               |      |               |  |
| Replace wood (unfinished) ceiling                   | 0635205         |     | 20   | 1.14          |      |               | -    |               |      |               |  |
| Replace ceramic tile wall                           | 0612805         |     | 21   | 1.09          |      |               | 19   | 1.23          | 22   | 1.18          |  |
| PM 25 KBTU<br>house furnace (oil)                   | 0981D12         |     | 22   | 1.02          |      |               |      |               |      |               |  |
| Replace 100<br>KBTU house<br>furnace (oil)          | 0981D23         |     |      |               | 12   | 1.68          |      |               |      |               |  |
| Repair chiller - air cool recip., 5-ton             | 0991441         |     |      |               | 13   | 1.59          |      |               |      |               |  |
| Minor repairs -<br>shingled roof                    | 0311353         |     |      |               | 20   | 1.12          | 9    | 2.27          |      |               |  |
| Refinish aluminum siding, 1st floor                 | 0415114         |     |      |               | 15   | 1.44          |      |               |      |               |  |
| PM 100 KBTU<br>house furnace (oil)                  | 0981D22         |     |      |               | 16   | 1.41          |      |               |      |               |  |
| Refinish hollow core (painted) wood interior door   | 0533114         |     |      |               | 21   | 1.10          |      |               |      |               |  |
| Replace vinyl asbestos tile flooring                | 062A202         |     |      |               |      |               | 4    | 4.20          |      |               |  |
| Clean and service hot water heater, gas/oil, 75-gal | 0814E02         |     |      |               |      |               | 7    | 3.16          |      |               |  |

### Family Housing (Capehart) Cost by Task CACES % of Task Description ID No. Total **Bragg** Wood **Devens** Ord % of % of % of % of Rank Total **Total** Rank **Total** Total Rank Rank 2.17 Refinish wood 0431324 10 frame (painted) operable window, 2nd floor Repair 100 KBTU 0981C21 1.42 11 2.05 18 house furnace (gas) Place new over 0311356 12 2.02 existing - shingled roof Replace pipe or 0822102 13 1.59 gutter Flashing repairs -0311355 14 1.40 shingled roof Replace receptacle/ 1127202 15 1.36 Replace sheetrock 0611302 16 1.28 (unstippled) wall PM heat/cool 09E1111 18 1.25 thermostat Replace wiring 1127102 21 1.13 device, switch 0841201 Unstop waste 22 1.13 disposal, residential Replace waste 0841202 23 1.10 disposal, residential 1127201 M&R receptacle 24 1.07

and plug

|   | Family Housing (Capehart)  Cost by Task |  |      |               |      |               |      |               |      |               |  |  |
|---|---|--|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task<br>Description   | CACES<br>ID No.                         |  |      | Bragg         |      | Wood          |      | ens ens       | Ord  |               |  |  |
|   |   |  | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| M&R wiring device, switch                                       | 1127101                                 |  |      |               |      |               | 26   | 1.03          |      |               |  |  |
| Refinish plaster wall   | 0611104                                 |  |      |               |      |               |      |               | 3    | 3.82          |  |  |
| Refinish stucco<br>wall, 1st floor                              | 0415C14                                 |  |      |               |      |               |      |               | 8    | 2.66          |  |  |
| Refinish sheetrock (stippled) ceiling                           | 0631204                                 |  | -    |               |      |               |      |               | 13   | 1.97          |  |  |
| Repair steel (painted) sliding interior door                    | 0531132                                 |  |      |               |      |               |      |               | 14   | 1.96          |  |  |
| Clean and service hot water heater, gas/oil, 30-gal             | 0814D02                                 |  |      |               |      |               |      |               | 15   | 1.65          |  |  |
| Repair solid core<br>(painted) wood<br>sliding interior<br>door | 0533222                                 |  |      |               |      |               |      |               | 20   | 1.40          |  |  |
| Refinish wood<br>(multi-coat)<br>exterior wall, 1st<br>floor    | 0415F14                                 |  |      |               |      |               |      |               | 21   | 1.36          |  |  |

| Family | Hou  | ısin | g | (W  | herry) |
|--------|------|------|---|-----|--------|
| (      | Cost | by   | T | ask |        |

| <u></u>                                       |                 |               |      | ust by 12     |      |               |      |               |      |               |  |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                              | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens/          | o    | Ord           |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Refinish sheetrock (unstippled) wall          | 0611304         | 6.15          | 1    | 7.26          |      |               | 1    | 20.34         | 27   | 1.04          |  |
| Replace hot water heater, electric, 120-gal   | 0814Н03         | 5.72          | 2    | 7.19          |      |               |      |               |      |               |  |
| Refinish sheetrock (unstippled) ceiling       | 0631304         | 2.83          | 3    | 3.47          |      |               | 2    | 8.05          |      |               |  |
| Replace<br>switchgear, indoor<br>below 600V   | 1117103         | 2.77          | 4    | 3.37          |      |               |      |               |      |               |  |
| Replace<br>dishwasher                         | 0841102         | 2.27          | 7    | 2.58          |      |               | 4    | 5.88          |      |               |  |
| Replace wood (unfinished) ceiling             | 0635205         | 2.20          | 5    | 2.76          |      |               |      |               |      |               |  |
| PM chiller-air cool recip. 5-ton              | 0991442         | 2.13          | 6    | 2.67          |      |               |      |               |      |               |  |
| Replacement of shingled roof                  | 0311357         | 2.10          | 9    | 2.18          |      |               | 7    | 2.40          | 12   | 1.77          |  |
| Replace maple floor                           | 0625203         | 2.09          | 8    | 2.55          |      |               |      |               |      |               |  |
| Minor repairs-<br>shingled roof               | 0311353         | 1.74          | 11   | 1.78          |      |               | 8    | 2.15          | 16   | 1.59          |  |
| Replace 25 KBTU house furnace (electric)      | 0981E13         | 1.60          | 10   | 2.00          |      |               |      |               | ·    |               |  |
| Place new over<br>existing - shingled<br>roof | 0311356         | 1.42          | 12   | 1.43          |      |               | 9    | 1.91          | 19   | 1.39          |  |
| Replace wood parquetry floor                  | 0625103         | 1.33          | 15   | 1.34          |      |               |      |               | 20   | 1.34          |  |
| Refinish plaster wall                         | 0611104         | 1.26          |      |               |      |               |      |               | 1    | 6.42          |  |

#### Family Housing (Wherry) Cost by Task Task Description CACES % of ID No. Total Wood Devens **Bragg** Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total 09E1111 PM heat/cool 1.19 19 1.26 thermostat 0822102 1.15 14 1.36 14 1.55 Replace pipe or gutter Flashing repairs-0311355 20 17 1.32 1.04 1.15 1.17 26 shingled roof Repair aluminum 0426112 1.14 13 1.43 (P/A) exterior doors 0561104 Refinish wood 1.10 16 1.34 trim (interior) Sand and refinish 0625202 1.09 17 1.33 maple floor PM 25 KBTU 0981E12 1.02 18 1.28 house furnace (electric) General M&R. 0841101 1.02 21 1.14 dishwasher Replace chiller-air 0991443 22 1.13 cool recip. 5 ton 062A102 23 Replace linoleum 1.10 floor Replace HW pipe 0814203 3 7.57 & fittings, copper Refinish steel 5 3.29 0431224 frame (painted) operable window, 2nd floor Replace valve, 0814402 10 1.81 non-drain, 2"-3" Unstop waste 0841201 11 1.81 disposal,

residential

|   |                 |               | •    | Housing ost by Ta | (Wherry)<br>ask | )             |      |               |      |               |  |
|---|-----------------|---------------|------|-------------------|-----------------|---------------|------|---------------|------|---------------|--|
| Task Description  | CACES<br>ID No. | % of<br>Total | Br   | agg               | Wo              | ood           | Dev  | ens           | O    | )rd           |  |
|   |                 |               | Rank | % of<br>Total     | Rank            | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace waste disposal, residential                               | 0841202         |               |      |                   |                 |               | 12   | 1.77          |      |               |  |
| Repair sheetrock<br>(unstippled) wall                             | 0611302         |               |      |                   |                 |               | 13   | 1.76          |      |               |  |
| Replace receptacle/plug   | 1127202         |               |      |                   |                 |               | 15   | 1.43          | 28   | 1.00          |  |
| Replace steel<br>frame (painted)<br>operable window,<br>1st floor | 0431215         |               |      |                   |                 |               | 16   | 1.41          |      |               |  |
| Replace bathub, cast iron   | 0811707         |               |      |                   | ,               |               | 18   | 1.29          |      |               |  |
| Repair formica-<br>vinyl exterior, 2nd<br>floor                   | 0415O22         |               |      |                   |                 |               | 19   | 1.28          |      |               |  |
| Replace steel<br>frame (painted)<br>operable window,<br>2nd floor | 0431225         |               |      |                   |                 |               | 20   | 1.22          | ·    |               |  |
| Replace wiring device, switch                                     | 1127102         |               |      |                   |                 |               | 21   | 1.22          |      |               |  |
| Replace solid core (painted) wood exterior door                   | 0423215         |               |      |                   |                 |               | 22   | 1.19          |      |               |  |
| Replace receptacle/plug   | 1127201         |               |      |                   |                 |               | 23   | 1.13          |      |               |  |
| M&R wiring device, switch   | 1127101         |               |      |                   |                 |               | 24   | 1,11          |      |               |  |
| Replace vinyl asbestos tile flooring                              | 062A202         |               |      |                   |                 |               |      |               | 2    | 4.00          |  |

## Family Housing (Wherry) Cost by Task

|  |                 |               | C    | ost by Ta     | ask  |               |      |               |        |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|--------|---------------|
| Task Description                                 | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | ns Ore |               |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total |
| PM 100 KBTU<br>house furnace<br>(gas)            | 0981C22         | ·             |      |               |      |               |      |               | 3      | 3.96          |
| Refinish finished concrete interior wall         | 061A204         |               |      |               |      |               |      |               | 4      | 2.98          |
| Replace 100<br>KBTU house<br>furnace (gas)       | 0981C23         |               |      |               |      |               |      |               | 5      | 2.89          |
| Refinish plaster ceiling                         | 0631104         |               |      |               |      |               |      |               | 6      | 2.70          |
| Membrane<br>removal &<br>replacement -<br>BUR    | 0311107         |               |      |               |      |               |      |               | 7      | 2.47          |
| Refinish stucco<br>exterior wall 1st<br>floor    | 0415C14         |               |      |               |      |               |      |               | 8      | 2.45          |
| Debris removal & inspect - BUR                   | 0311101         |               |      |               |      |               |      |               | 9      | 1.93          |
| Replace finished concrete interior wall          | 061A202         |               |      |               |      |               |      |               | 10     | 1.93          |
| Refinish concrete<br>exterior wall, 1st<br>floor | 0415A14         |               |      |               |      |               |      |               | 11     | 1.91          |
| Replace hollow core (painted) wood interior door | 0533112         |               |      |               |      |               |      |               | 13     | 1.75          |
| Place new<br>membrane over<br>existing - BUR     | 0311106         |               |      |               |      |               |      |               | 14     | 1.75          |

|   |                 |               |      | Housing o     | (Wherry)<br>ask |               |          |               |      |               |
|---|-----------------|---------------|------|---------------|-----------------|---------------|----------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo              | ood           | Devens C |               | O    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank            | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total |
| Repair solid core<br>(painted) wood<br>sliding interior<br>door | 0533222         |               |      |               |                 |               |          |               | 15   | 1.72          |
| Repair 100 KBTU house furnace (gas)                             | 0981C21         |               |      |               |                 |               |          |               | 17   | 1.57          |
| Replace hot water<br>heater, gas/oil, 75-<br>gal                | 0814E03         |               |      |               |                 |               |          | -             | 18   | 1.46          |
| Flashing repairs -<br>BUR                                       | 0311105         |               |      |               |                 |               | _        |               | 21   | 1.27          |
| Clean & service<br>hot water heater,<br>gas/oil, 75-gal         | 0814E02         |               |      |               |                 |               |          |               | 22   | 1.26          |
| Minor membrane repairs - BUR                                    | 0311103         |               |      |               |                 |               |          |               | 23   | 1.24          |
| Clean & service hot water heater, gas/oil, 30-gal               | 0814D02         |               |      |               |                 |               |          |               | 24   | 1.13          |
| Repair plaster wall   | 0611102         |               |      |               |                 |               |          |               | 25   | 1.09          |

| UPH | Enlis | ted | Personnel |
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|     | Cost  | by  | Task      |

|  |                 | F             |      | ost by 1      |      |               |      |               |      |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | o    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace vinyl asbestos tile flooring                 | 062A202         | 5.56          | 1    | 6.33          | 11   | 1.75          | 1    | 4.39          | 1    | 5.31          |
| Refinish concrete<br>block (painted)<br>wall         | 0612404         | 3.84          | 2    | 3.99          | 2    | 4.33          | 2    | 3.56          | 3    | 3.22          |
| PM heat/cool<br>thermostat                           | 09E1111         | 2.60          | 3    | 3.05          | 5    | _3.14         | 19   | 1.09          | 10   | 1.77          |
| Replace ceramic tile wall                            | 0612805         | 1.90          | 5    | 2.22          | 4    | 3.32          |      |               | 19   | 1.26          |
| Replace<br>fluorescent lighting<br>fixture           | 1131303         | 1.76          | 7    | 1.99          | 19   | 1.06          |      |               | 7    | 2.05          |
| Replace broken pipe insulation                       | 0984142         | 1.68          | 12   | 1.62          | 15   | 1.22          | 4    | 2.19          | 11   | 1.70          |
| Repair solid core<br>wood (painted)<br>interior door | 0533212         | 1.65          | 13   | 1.55          | 8    | 2.18          | 7    | 1.60          | 9    | 1.85          |
| Replace linoleum floor                               | 062A102         | 1.59          | 4    | 2.38          |      |               |      |               |      |               |
| Replace carpet                                       | 0629102         | 1.52          |      |               | 1    | 11.21         |      |               | 2    | 3.31          |
| Replace hollow core wood (painted) interior door     | 0533112         | 1.42          | 6    | 2.21          |      |               |      |               |      |               |
| Refinish sheetrock (unstippled) wall                 | 0611304         | 1.42          | 8    | 1.94          |      |               | 10   | 1.35          |      |               |
| Replace<br>switchgear, indoor<br>below 600V          | 1117103         | 1.38          | 14   | 1.41          | 12   | 1.73          |      |               | 12   | 1.64          |

## UPH Enlisted Personnel Cost by Task

|   |                 |               |      | ost by I      |      |               |      |               |      |               |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                   | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens ens       | 0    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Membrane<br>removal and<br>replacement -<br>BUR       | 0311107         | 1.26          | 17   | 1.18          | 17   | 1.17          |      |               | 8    | 1.93          |
| Replace 200 CFM 2-pipe fan coil unit                  | 09A1914         | 1.24          | 9    | 1.86          |      |               |      |               |      |               |
| PM battery,<br>secondary dry                          | 1283401         | 1.23          | 10   | 1.84          |      | -             |      |               |      |               |
| PM chiller-air cool recip., 10-ton                    | 0991452         | 1.14          | 11   | 1.79          |      |               |      |               |      |               |
| Replace pneumatic thermostat                          | 09E1112         | 1.08          | 15   | 1.31          | 16   | 1.20          |      |               |      |               |
| Place new<br>membrane over<br>existing - BUR          | 0311106         | 1.02          | 18   | 1.03          | 21   | 1.03          |      |               | 16   | 1.37          |
| Debris removal<br>and inspection -<br>BUR             | 0311101         | 1.01          |      |               |      |               | _    |               | 15   | 1.51          |
| PM and replace<br>filters, 200 CFM<br>2-pipe fan coil | 09A1913         |               | 16   | 1.23          |      |               |      |               |      |               |
| PM and clean coil,<br>200 CFM 2-pipe<br>fan coil unit | 09A1912         |               | 19   | 1.01          |      |               |      |               |      |               |
| Replace 600 CFM 2-pipe fan coil unit                  | 09A1934         |               |      |               | 3    | 4.28          |      |               |      |               |
| Replace shower,<br>terrazzo                           | 0811906         |               |      |               | 6    | 2.85          |      |               | 14   | 1.61          |
| PM and replace<br>filters, 600 CFM<br>2-pipe fan coil | 09A1933         |               |      |               | 7    | 2.44          |      |               |      |               |

| UPH | Enlis | ted | Pers | onnel |
|-----|-------|-----|------|-------|
|     | Cost  | by  | Task |       |
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|   |                 |               | С    | ost by Ta     | ask  |               | <del>-</del> |               |      |               |  |
|---|-----------------|---------------|------|---------------|------|---------------|--------------|---------------|------|---------------|--|
| Task<br>Description   | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | De           | vens          | o    | rd            |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank         | % of<br>Total | Rank | % of<br>Total |  |
| PM and clean coil,<br>600 CFM 2-pipe<br>fan coil unit             | 09A1932         |               |      |               | 9    | 2.15          |              |               |      |               |  |
| PM damper<br>controller -<br>electrical                           | 09E1211         |               |      |               | 10   | 1.91          |              |               |      |               |  |
| Replace damper controller - electrical                            | 09E1212         |               |      |               | 13   | 1.72          |              |               |      |               |  |
| Replace solid core<br>wood (painted)<br>interior door             | 0533215         |               |      |               | 14   | 1.27          |              |               | 22   | 1.08          |  |
| Clean floor drain, without bucket                                 | 0812201         |               |      |               | 18   | 1.16          |              |               |      |               |  |
| Refinish solid core<br>wood (painted)<br>interior door            | 0533214         |               |      |               | 20   | 1.05          |              |               |      |               |  |
| Refinish wire mesh wall   | 0616404         |               |      |               |      |               | 3            | 3.41          |      |               |  |
| Refinish wood<br>frame (painted)<br>operable window,<br>2nd floor | 0431324         |               |      |               |      |               | 5            | 1.97          |      |               |  |
| PM battery,<br>primary wet  | 1283101         |               |      |               |      |               | 6            | 1.82          |      |               |  |
| Replace wall radiator, finned, 10' section                        | 0981Н01         |               |      |               |      |               | 8            | 1.52          | 21   | 1.10          |  |
| Refinish aluminum frame screen, 3rd floor                         | 0434634         |               |      |               |      |               | 9            | 1.48          |      |               |  |
| Replace 100<br>KBTU house<br>furnace (oil)                        | 0981ט23         |               |      |               |      |               | 11           | 1.34          |      |               |  |

## UPH Enlisted Personnel Cost by Task

|   |                 |               |      | ost by 1:     | 45K  |               |      |               |      |               |  |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task<br>Description                                       | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | vens          | o    | rd            |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Refinish plywood<br>(painted) interior<br>wall            | 0615104         |               |      |               |      |               | 12   | 1.34          |      |               |  |
| Minor repairs -<br>shingled roof                          | 0311353         |               |      |               |      |               | 13   | 1.27          |      |               |  |
| Refinish sheetrock (stippled) ceiling                     | 0631204         |               |      |               |      |               | 14   | 1.24          |      |               |  |
| Replacement of shingled roof                              | 0311357         |               |      |               |      |               | 15   | 1.19          |      |               |  |
| Refinish aluminum frame screen, 2nd floor                 | 0434624         |               |      |               |      |               | 16   | 1.18          |      |               |  |
| Place new over<br>existing - shingled<br>roof             | 0311356         |               |      |               |      |               | 17   | 1.14          |      |               |  |
| PM 100 KBTU<br>house furnace (oil)                        | 0981D22         |               |      |               |      |               | 18   | 1.14          |      |               |  |
| Replace drinking fountain                                 | 0811H07         |               |      |               |      |               | 20   | 1.04          |      |               |  |
| Replace broken glass, aluminum operable window, 3rd floor | 0431131         |               |      |               |      |               | 21   | 1.02          |      |               |  |
| Replace finned radiator, wall 10' section                 | 0943301         |               |      |               |      |               |      |               | 4    | 2.86          |  |
| Repair finished concrete interior wall                    | 061A202         |               |      |               |      |               |      |               | 5    | 2.83          |  |
| Refinish finished concrete interior wall                  | 061A204         |               |      |               |      |               |      |               | 6    | 2.21          |  |

#### **UPH Enlisted Personnel** Cost by Task **CACES** Task % of Description Total ID No. Wood Devens Bragg Ord % of % of % of % of Total Rank Rank Total Rank Total Rank Total Replace hot water 0814J03 13 1.63 heater, electric, 1,000-gal Refinish stucco 0415C34 17 1.36 exterior wall, 3rd+ floor Refinish sheetrock 0611204 18 1.28 (stippled) wall 0812103 Replace pipe and 20 1.17 fittings, waste and vent Replace ceramic 0561405 23 1.05 trim (interior) Refinish stucco 0415C24 24 1.04 exterior wall, 2nd floor

|  |                 |               |     | inee Barı<br>ost by Ta |      |      |     |      |   |      |               |      |               |      |               |      |               |
|--|-----------------|---------------|-----|------------------------|------|------|-----|------|---|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                    | CACES<br>ID No. | % of<br>Total | Bra | agg                    | Wood |      | Dev | ens/ | О | rd   |               |      |               |      |               |      |               |
|  |                 |               |     |                        |      |      |     |      |   | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace vinyl<br>asbestos tile<br>flooring             | 062A202         | 8.19          |     |                        | 1    | 8.19 |     |      |   |      |               |      |               |      |               |      |               |
| Refinish concrete<br>block (painted)<br>wall           | 0612404         | 5.42          |     |                        | 2    | 5.42 |     |      |   |      |               |      |               |      |               |      |               |
| PM heat/cool<br>thermostat                             | 09E1111         | 5.23          |     |                        | 3    | 5.23 |     |      |   |      |               |      |               |      |               |      |               |
| Replace 200 CFM<br>4-pipe fan-coil unit                | 09A1A14         | 4.60          |     |                        | 4    | 4.60 |     |      |   |      |               |      |               |      |               |      |               |
| Replace ceramic tile wall                              | 0612805         | 4.42          |     |                        | 5    | 4.42 |     |      |   |      |               |      |               |      |               |      |               |
| Replace<br>fluorescent lighting<br>fixture             | 1131303         | 3.07          |     |                        | 6    | 3.07 |     |      |   |      |               |      |               |      |               |      |               |
| Replace fire alarm control panel                       | 1221603         | 3.05          |     |                        | 7    | 3.05 |     |      |   |      |               |      |               |      |               |      |               |
| Replace broken pipe insulation                         | 0984142         | 3.03          |     |                        | 8    | 3.03 |     |      |   |      |               |      |               |      |               |      |               |
| PM replace filters,<br>200 CFM 4-pipe<br>fan-coil      | 09A1A13         | 2.95          |     |                        | 9    | 2.95 |     |      |   |      |               |      |               |      |               |      |               |
| Replace hollow<br>core (painted)<br>wood interior door | 0533112         | 2.74          |     |                        | 10   | 2.74 |     |      |   |      |               |      |               |      |               |      |               |
| Replace wall radiator, finned 10' section              | 0981H01         | 2.60          |     |                        | 11   | 2.60 |     |      |   |      |               |      |               |      |               |      |               |
| PM and clean coil,<br>200 CFM 4-pipe<br>fan-coil unit  | 09A1A12         | 2.59          |     |                        | 12   | 2.59 |     |      |   |      |               |      |               |      |               |      |               |

| Trainee Barracks Cost by Task                    |                 |               |       |               |      |               |        |               |      |               |
|--|-----------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|
| Task<br>Description                              | CACES<br>ID No. | % of<br>Total | Bragg |               | Wood |               | Devens |               | Ord  |               |
|  |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Replace pneumatic thermostat                     | 09E1112         | 2.00          |       |               | 13   | 2.00          |        |               |      |               |
| Membrane<br>removal and<br>replacement -<br>BUR  | 0311107         | 1.94          |       |               | 14   | 1.94          |        |               |      |               |
| Place new<br>membrane over<br>existing - BUR     | 0311106 .       | 1.73          |       |               | 15   | 1.73          |        |               |      |               |
| Replace<br>switchgear, indoor<br>below 600V      | 1117103         | 1.62          |       |               | 16   | 1.62          |        |               |      |               |
| Debris removal<br>and inspection -<br>BUR        | 0311101         | 1.57          |       |               | 17   | 1.57          |        |               |      |               |
| M&R fluorescent lighting fixture                 | 1131301         | 1.36          |       |               | 18   | 1.36          |        |               |      | j             |
| Refinish (finished) concrete ceiling             | 063A204         | 1.27          |       |               | 19   | 1.27          |        |               | _    |               |
| Replace hollow core (painted) wood interior door | 0533115         | 1.23          |       |               | 20   | 1.23          |        |               |      |               |
| PM and inspect<br>fire alarm cent.<br>panel      | 1221602         | 1.18          |       |               | 21   | 1.18          |        |               |      |               |
| Flashing repairs -<br>BUR                        | 0311105         | 1.10          |       |               | 22   | 1.10          |        |               |      |               |
| Minor membrane repairs - BUR                     | 0311103         | 1.05          |       |               | 23   | 1.05          |        |               |      |               |

| UPH | Din | ing | <b>Facilities</b> |
|-----|-----|-----|-------------------|
| (   | ost | bv  | Task              |

| Task  | CACES   | % of  |       |               |      | <del>", ", ", ", ", "</del> |        |               |      |            |
|---|---------|-------|-------|---------------|------|-----------------------------|--------|---------------|------|------------|
| Description                                     | ID No.  | Total | Bragg |               | Wood |                             | Devens |               | Ord  |            |
|   |         |       | Rank  | % of<br>Total | Rank | % of<br>Total               | Rank   | % of<br>Total | Rank | % of Total |
| Replace quarry tile floor                       | 0622202 | 3.43  | 2     | 3.38          | 3    | 4.63                        |        |               | 1    | 5.56       |
| Replace vinyl asbestos tile flooring            | 062A202 | 3.28  | 1     | 4.74          | 7    | 2.55                        | 15     | 1.23          | 7    | 2.50       |
| Replace 20,000<br>BTU boiler (dual-<br>fired)   | 0981425 | 2.93  | ,     |               |      |                             | 1      | 17.60         |      |            |
| Replace fluorescent lighting fixture            | 1131303 | 2.15  | 3     | 2.70          | 11   | 1.94                        | 13     | 1.34          | 14   | 1.70       |
| Membrane<br>removal and<br>replacement -<br>BUR | 0311107 | 1.89  | 16    | 1.41          | 9    | 2.16                        | 9      | 1.94          | 4    | 3.31       |
| Replace deaerator                               | 0981A13 | 1.61  |       |               | 5    | 2.81                        |        |               | 3    | 4.53       |
| Replace ceramic tile wall                       | 061285  | 1.61  | 17    | 1.40          | 4    | 3.15                        |        |               |      |            |
| Place new<br>membrane over<br>existing - BUR    | 0311106 | 1.55  | 20    | 1.23          | 10   | 1.94                        | 14     | 1.26          | 8    | 2.35       |
| Replace exhaust fan, 10,000 CFM                 | 09C1133 | 1.55  | 11    | 1.71          | 13   | 1.61                        |        |               | 18   | 1.65       |
| Repair aluminum louver in frame, 1st floor      | 0433212 | 1.52  |       |               | 1    | 4.74                        |        |               |      |            |
| Debris removal<br>and inspection -<br>BUR       | 0311101 | 1.51  | 22    | 1.15          | 2    | 1.75                        | 12     | 1.49          | 6    | 2.59       |
| PM battery, secondary wet                       | 1283301 | 1.49  |       |               | 2    | 4.70                        |        |               |      |            |
| PM exhaust fan,<br>10,000 CFM                   | 09C1132 | 1.43  | 13    | 1.51          | 15   | 1.53                        |        |               | 19   | 1.64       |

#### **UPH Dining Facilities** Cost by Task Task CACES % of ID No. Description Total **Bragg** Wood Devens Ord % of % of % of % of Rank Total Rank Total Total Rank Total Rank Replace broken 0984142 1.36 6 2.58 7 2.76 pipe insulation 1115103 6 2.16 Replace 1.17 switchgear, indoor, 0-600V PM chiller-air cool 0991442 1.15 5 2.40 recip., 5-ton 1.09 Replace 200 0981C33 4 2.42 KBTU house furnace (gas) 1117103 1.09 23 20 Replace 1.15 1.20 switchgear, indoor below 600V Replacement of 0311357 1.07 10 1.74 shingled roof Repair 20,000 0981421 1.04 2 6.27 BTU boiler (dualfired) 1.70 0311105 1.02 19 1.23 15 Flashing repairs -BUR Refinish sheetrock 0611304 1.02 9 1.78 (unstippled) wall Refinish wood 0415F14 7 1.92 (multi-coat) exterior, 1st floor 09A1C64 8 Replace single-1.86 zone draw through, 2,500 **CFM** Repair hollow core 0533112 12 1.56

(painted) wood interior door

# UPH Dining Facilities Cost by Task

| Task<br>Description                              | CACES<br>ID No. | % of<br>Total | Bragg |               | Wood |               | Devens |               | Ord  |               |
|--|-----------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|
|  |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| PM single-zone draw through, 2,500 CFM           | 09A1C62         |               | 14    | 1.48          |      |               |        | ,             |      |               |
| Minor repairs -<br>shingled roof                 | 0311353         |               | 15    | 1.42          |      |               |        |               |      |               |
| PM heat/cool<br>thermostat                       | 09E1111         |               | 18    | 1.38          |      |               | -      |               |      |               |
| Replace single-<br>zone draw thru,<br>25,000 CFM | 09A1C34         |               | 19    | 1.27          |      |               |        |               | 13   | 1.91          |
| PM 200 KBTU<br>house furnace<br>(gas)            | 0981C32         |               | 21    | 1.16          |      |               |        |               |      |               |
| Place new over<br>existing - shingled<br>roof    | 0311356         |               | 24    | 1.14          |      |               |        |               |      |               |
| M&R fluorescent lighting fixture                 | 1131301         |               | 25    | 1.12          |      |               |        |               |      |               |
| Replace 1-ton<br>window A/C                      | 0991213         |               | 26    | 1.11          |      |               |        | _             |      |               |
| PM 1-ton window<br>A/C                           | 0991212         |               | 27    | 1.05          |      |               |        |               |      |               |
| Replace chiller - air cool recip., 5-ton         | 0991443         |               | 28    | 1.02          |      |               |        |               |      |               |
| Refinish aluminum louver in frame, 1st floor     | 0433214         |               |       |               | 8    | 2.25          |        |               |      |               |
| Replace single-<br>zone draw thru,<br>10,000 CFM | 09A1C24         |               |       |               | 14   | 1.59          |        |               |      |               |

## UPH Dining Facilities Cost by Task

| Task   | CACES   | % of  |       |               |      |               |        |               |      |               |
|--|---------|-------|-------|---------------|------|---------------|--------|---------------|------|---------------|
| Description  | ID No.  | Total | Bragg |               | Wood |               | Devens |               | Ord  |               |
|  |         |       | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Replace aluminum louver in frame, 1st floor          | 0433215 |       |       |               | 16   | 1.49          |        |               |      |               |
| Replace hot water heater, electric, 1,000-gal        | 0814J03 |       |       |               | 17   | 1.29          | :<br>: |               |      |               |
| PM/inspect motor starter, 0-600V                     | 1123602 |       |       |               | 18   | 1.24          | 16     | 1.18          | 10 . | 2.28          |
| Minor membrane repairs - BUR                         | 0311103 |       |       |               | 21   | 1.17          |        |               | 17   | 1.67          |
| Refinish aluminum siding, 1st floor                  | 0415114 |       |       |               | 22   | 1.12          |        |               |      |               |
| PM weekly tour,<br>20,000 BTU boiler<br>(dual-fired) | 0981424 |       |       |               |      |               | 3      | 3.91          |      |               |
| Refinish steel louver (framed), 1st floor            | 0433314 |       |       |               |      |               | 4      | 3.83          |      |               |
| Replace steel louver (framed), 1st floor             | 0433312 |       |       |               |      |               | 5      | 3.23          |      |               |
| PM battery,<br>primary dry                           | 1283201 |       |       |               |      |               | 6      | 3.13          |      |               |
| Replace carpet                                       | 0629102 |       |       |               |      |               | 8      | 2.50          |      |               |
| Replace hermetic chiller, 100 tons                   | 0991433 |       |       |               |      |               | 10     | 1.85          |      |               |
| Repair hermetic chiller, 100 tons                    | 0991431 |       |       |               |      |               | 11     | 1.66          |      |               |
| PM annual inspection, 20,000 BTU boiler (dualfired)  | 0981422 |       |       |               |      |               | 16     | 1.14          |      |               |

# UPH Dining Facilities Cost by Task

| Cost by Task                                      |                 |               |         |               |      |               |      |               |      |               |
|---|-----------------|---------------|---------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                               | CACES<br>ID No. | % of<br>Total | Bra     | agg           | Wo   | od            | Dev  | ens           | O    | rd            |
|   |                 |               | Rank    | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM/inspect safety switch, enclosed                | 1122102         |               |         |               |      |               | 17   | 1.13          |      |               |
| PM hermetic chiller, 100 tons                     | 0991432         |               | <u></u> |               |      |               | 18   | 1.06          |      |               |
| Replace 10,000<br>BTU boiler (gas)                | 0981137         |               |         |               |      |               |      |               | 2    | 5.21          |
| Replace hot water<br>heater, electric,<br>300-gal | 0814I03         |               |         |               |      |               |      |               | 4    | 2.64          |
| PM weekly tour,<br>10,000 BTU boiler<br>(gas)     | 0981136         |               |         |               |      |               |      |               | 9    | 2.29          |
| Replace CW expansion chamber                      | 0813702         |               |         |               |      |               |      |               | 11   | 2.13          |
| Repair 10,000<br>BTU boiler (gas)                 | 0981131         |               |         |               |      |               |      |               | 12   | 1.93          |
| Replace<br>switchgear, indoor<br>above 600V       | 1117203         |               |         |               |      |               |      |               | 16   | 1.69          |
| Repair wood<br>louver in frame,<br>1st floor      | 0433112         |               |         |               |      |               |      |               | 20   | 1.42          |
| PM feedwater supply                               | 0981912         |               |         |               |      |               |      |               | 21   | 1.36          |
| PM deaerator                                      | 0981A12         |               |         |               |      |               |      |               | 22   | 1.27          |
| Refinish wood<br>louver in frame,<br>1st floor    | 0433114         |               |         |               |      |               |      |               | 23   | 1.24          |
| Replace exhaust fan, 50,000 CFM                   | 09C1153         |               |         |               |      |               |      |               | 24   | 1.06          |
| Replace single-<br>zone draw thru,<br>6,500 CFM   | 09A1C14         |               |         |               |      |               |      |               | 25   | 1.05          |

| UPH Dining Facilities Cost by Task |                 |               |      |               |      |               |      |               |      |               |  |  |
|------------------------------------|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task<br>Description                | CACES<br>ID No. | % of<br>Total | 1    |               |      |               |      |               | Ord  |               |  |  |
|                                    |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Replace pipe or gutter             | 0822102         |               |      |               |      |               |      |               | 26   | 1.01          |  |  |

#### **UPH Officers** Cost by Task % of Task Description CACES ID No. **Devens** Ord Total Wood Bragg % of % of % of % of Total Total Total **Total** Rank Rank Rank Rank 5 3.09 1 4.66 Replace vinyl 062A202 4.90 1 6.10 1 4.36 asbestos tile flooring 4 2 3.77 4 3.16 4 3.57 4.46 0533112 3.58 Repair hollow core (painted) wood exterior door 9.97 0629102 3.05 2 3.75 1 8 2.15 Replace carpet 9 2.03 1.06 15 1.50 6 2.45 1117103 1.81 28 Replace switchgear, indoor below 600V 17 1.33 9 1.88 9 2.08 11 2.11 0612805 1.77 Replace ceramic tile wall 3.99 2 3 4.50 Refinish sheetrock 0611304 1.68 (unstippled) wall 1.69 14 1.42 1.60 14 1.53 15 Replace hollow 0533115 1.55 11 core (painted) wood interior door 1.49 3 3.51 Replace wall 0981H01 1.51 14 1.56 16 radiator, finned 10' section 09A1924 3.17 Replace 400 CFM 1.35 3 fan coil unit 5 3.41 1.65 PM heat/cool 09E1111 1.34 12 thermostat PM & inspect 1123602 1.19 3 3.82 motor starter, 0-600V 7 2.16 0311107 1.11 13 1.43 Membrane removal & replacement-BUR 0534232 2 4.63 10 2.13 1.09 Repair wood

louvered interior

door

| UPH Officers<br>Cost by Task                         |                 |               |      |               |      |               |      |               |      |               |  |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task Description                                     | CACES<br>ID No. | % of<br>Total | Br   | agg           | We   | ood           | Dev  | vens          | o    | rd            |  |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Refinish hollow core (painted) wood interior door    | 0533114         | 1.07          |      |               | 29   | 1.02          | 17   | 1.48          | 24   | 1.14          |  |  |
| Replace ceramic trimming (interior)                  | 0561405         |               | 5    | 2.33          |      |               |      |               |      |               |  |  |
| Replace finned radiator, wall 10' section            | 0943301         |               | 6    | 2.24          |      |               |      |               |      |               |  |  |
| Refinish plaster wall                                | 0611104         |               | 7    | 2.20          |      |               |      |               |      |               |  |  |
| Refinish plaster ceiling                             | 0631104         |               | 8    | 2.20          |      |               |      |               |      |               |  |  |
| Repair solid core<br>(painted) wood<br>interior door | 0533212         |               | 10   | 1.87          |      |               |      |               |      |               |  |  |
| PM/replace filters,<br>400 CFM fan coil<br>unit      | 09A1923         |               | 11   | 1.85          |      |               |      |               |      |               |  |  |
| PM/clean coil 400-<br>CFM fan coil unit              | 09A1922         |               | 12   | 1.53          |      |               |      |               |      |               |  |  |
| Refinish concrete exterior wall, 3rd+ floor          | 0415A34         |               | 15   | 1.41          |      |               |      |               |      |               |  |  |
| Repack gland in CW drain valve                       | 0813601         |               | 16   | 1.35          |      |               |      |               |      |               |  |  |
| Place new membrane over existing-BUR                 | 0311106         |               | 18   | 1.27          |      |               |      |               | 18   | 1.53          |  |  |
| Replace HW drain valve                               | 0814603         |               | 19   | 1.22          |      |               |      |               |      |               |  |  |
| Debris removal & inspect-BUR                         | 0311101         |               | 20   | 1.17          |      |               |      |               | 16   | 1.69          |  |  |

### **UPH Officers** Cost by Task Task Description **CACES** % of **Devens** Ord ID No. Total **Bragg** Wood % of % of % of % of Total Total Total Total Rank Rank Rank Rank 0811805 21 1.13 Repair div. valve, bathtub, enameled steel Replace solid core 0533215 22 1.09 (painted) wood interior door Refinish wood 0433134 6 3.18 louver in frame, 3rd floor 0991212 7 2.56 PM 1-ton window A/C 0991213 2,44 Replace 1-ton window A/C 2.08 1.68 10 Refinish sheetrock 0631304 10 (unstippled) ceiling 1.57 M&R motor starter 1123601 12 0-600V 0433132 1.57 13 Replace wood louver in frame, 3rd floor 1.47 09C1112 15 1.44 19 PM cleaning exhaust fan 200 **CFM** 0631404 1.43 Refinish stucco 16 interior ceiling PM safety switch, 1122412 17 1.37 fused 1 P 0311357 Replacement of 18 1.33 shingled roof Replace 2,000 0981127 19 1.32 BTU boiler (gas) 09E1112 1.30 Replace pneumatic 20

thermostat

|  |                 |               |       | PH Offic<br>ost by Ta |      |               |        |               |      |               |
|--|-----------------|---------------|-------|-----------------------|------|---------------|--------|---------------|------|---------------|
| Task Description   | CACES<br>ID No. | % of<br>Total | Bragg |                       | Wood |               | Devens |               | Ord  |               |
|  |                 |               | Rank  | % of<br>Total         | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| PM weekly tour<br>2,000 BTU boiler<br>(gas)                      | 0981126         |               |       |                       | 21   | 1.27          |        |               |      |               |
| Replace broken pipe insulation                                   | 0984142         |               |       |                       | 22   | 1.14          | 7      | 2.63          |      |               |
| Replace smoke<br>detector  | 1221203         |               |       | -                     | 23   | 1.12          |        |               |      |               |
| Replace exhaust<br>fan 200 CFM                                   | 09C1113         |               |       |                       | 24   | 1.10          |        |               | 26   | 1.09          |
| Repair hollow core<br>(painted) wood<br>sliding interior<br>door | 0533122         |               |       |                       | 25   | 1.09          | 8      | 2.52          |      |               |
| PM 50 tons<br>chillers ACH<br>recip.                             | 0991422         |               |       |                       | 26   | 1.08          |        |               |      |               |
| Minor repairs-<br>shingled roof                                  | 0311353         |               |       |                       | 27   | 1.07          |        |               |      |               |
| Replace baseboard radiator 10' section                           | 0943201         |               |       |                       |      |               | 6      | 2.84          |      |               |
| Refinish concrete<br>block (painted)<br>interior wall            | 0612404         |               |       |                       |      |               | 11     | 1.70          | 22   | 1.34          |
| Replace radiator,<br>baseboard 10'<br>section                    | 0981G01         |               |       |                       |      |               | 13     | 1.55          |      |               |
| Replace wood<br>louvered interior<br>door                        | 0534235         |               |       |                       |      |               | 18     | 1.28          |      |               |
| Refinish aluminum frame screen cover, 3rd floor                  | 0434624         |               |       |                       |      |               | 19     | 1.16          |      |               |

| UPH Officers<br>Cost by Task                                     |                 |               |      |               |      |               |        |               |      |               |  |  |
|--|-----------------|---------------|------|---------------|------|---------------|--------|---------------|------|---------------|--|--|
| Task Description   | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wood |               | Devens |               | Ord  |               |  |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |  |  |
| Refinish wood trimming (interior)                                | 0561104         |               |      |               |      |               | 20     | 1.02          |      |               |  |  |
| Repair solid core<br>(painted) wood<br>sliding interior<br>door  | 0533222         |               |      |               |      |               |        |               | 4    | 3.23          |  |  |
| PM weekly tour<br>250 BTU boiler<br>(gas)                        | 0981115         |               |      |               |      | -             |        |               | 5    | 3.13          |  |  |
| Refinish sheetrock (stippled) wall                               | 0611204         |               |      |               |      |               |        |               | 9    | 2.13          |  |  |
| Replace waste disposal, residential                              | 0841202         |               |      |               |      |               |        |               | 12   | 1.87          |  |  |
| Unstop waste<br>disposal,<br>residential                         | 0841201         |               |      |               |      |               |        |               | 13   | 1.85          |  |  |
| Refinish sheetrock (stippled) ceiling                            | 0631204         |               |      |               |      |               |        |               | 14   | 1.74          |  |  |
| Replace solid core<br>(painted) wood<br>sliding interior<br>door | 0533225         |               |      |               |      |               |        |               | 17   | 1.69          |  |  |
| Refinish painted concrete block exterior wall, 2nd floor         | 0415924         |               |      |               |      |               |        |               | 20   | 1.44          |  |  |
| Refin steel frame<br>(painted) operable<br>window, 2nd floor     | 0431224         |               |      |               |      |               |        |               | 21   | 1.40          |  |  |
| Refinish painted concrete block exterior wall, 1st               | 0415914         |               |      |               |      |               |        |               | 23   | 1.17          |  |  |

floor

| UPH Officers<br>Cost by Task         |                 |               |      |               |      |               |        |               |      |            |  |  |  |
|--------------------------------------|-----------------|---------------|------|---------------|------|---------------|--------|---------------|------|------------|--|--|--|
| Task Description                     | CACES<br>ID No. | % of<br>Total | 1    |               | Wood |               | Devens |               | Ord  |            |  |  |  |
|                                      |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of Total |  |  |  |
| Flashing repairs-<br>BUR             | 0311105         |               |      |               |      |               |        |               | 25   | 1.11       |  |  |  |
| Minor membrane repairs-BUR           | 0311103         |               |      |               |      |               |        |               | 27   | 1.09       |  |  |  |
| Clean floor drain,<br>without bucket | 0812201         |               |      |               |      |               |        |               | 28   | 1.00       |  |  |  |

| Community | Fire  | station |
|-----------|-------|---------|
| Cost b    | y Tas | sk      |

| Task Description                                      | CACES   | % of  |       | ost by 10     |      |               |      |               |      |               |
|---|---------|-------|-------|---------------|------|---------------|------|---------------|------|---------------|
| rask Description                                      | ID No.  | Total | Br    | agg           | We   | ood           | Dev  | ens/          | 0    | rd            |
|   |         |       | Rank  | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Fotal |
| Replace diesel<br>generator<br>component              | 1281203 | 12.12 | I     | 27.90         |      |               |      |               |      |               |
| Replace carpet  | 0629102 | 2.14  | [<br> |               | 1    | 3.92          | 2    | 5.67          |      |               |
| PM weekly tour<br>250 BTU boiler<br>(gas)             | 0981115 | 1.38  | 5     | 2.09          | 2    | 3.80          |      |               |      |               |
| PM battery,<br>secondary dry                          | 1283401 | 1.87  |       |               | 3    | 3.32          | 3    | 5,10          |      |               |
| Refinish wood<br>(multi-coat)<br>exterior, 1st floor  | 0415F14 | 1.86  | 2     | 4.29          |      |               |      |               |      |               |
| Membrane<br>removal &<br>replacement -<br>BUR         | 0311107 | 1.86  |       |               | 11   | 1.71          | 8    | 2.24          | 3    | 6.21          |
| Replacement of shingled roof                          | 0311357 | 1.57  | 6     | 2.00          | 7    | 2.19          |      |               |      |               |
| Replace vinyl<br>asbestos tile<br>flooring            | 062A202 | 1.57  | 3     | 2.61          | 21   | 1.30          |      |               |      |               |
| Debris removal &<br>inspect BUR                       | 0311101 | 1.46  |       |               | 18   | 1.37          | 11   | 1.71          | 4    | 4.85          |
| Place new membrane over existing BUR                  | 0311106 | 1.44  |       |               | 14   | 1.53          | 13   | 1.53          | 5    | 4.41)         |
| Refinish sheetrock (unstippled) ceiling               | 0631304 | 1.44  | 8     | 1.80          | 12   | 1.70          | 19   | 1.13          |      |               |
| Refinish concrete<br>block (painted)<br>interior wall | 0612404 | 1.35  | 13    | 1.12          | 26   | 1.03          | 12   | 1.70          | 12   | 2.32          |
| Minor repairs-<br>shingled roof                       | 0311353 | 1,32  | 9     | 1.63          | 9    | 1.76          |      |               |      |               |

| Community Fire station Cost by Task                 |                 |               |      |               |      |               |      |               |      |               |  |  |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task Description                                    | CACES<br>ID No. | % of<br>Total | Br   | agg           | Wo   | ood           | Dev  | vens          | o    | rd            |  |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Replace 2,000<br>BTU boiler (dual-<br>fired)        | 0981415         | 1.22          |      |               |      |               | 1    | 6.05          |      |               |  |  |
| Replace fluorescent lighting fixture                | 1131303         | 1.15          |      |               | 15   | 1.43          | 7    | 2.36          |      | -             |  |  |
| Place new over<br>existing - shingled<br>roof       | 0311356         | 1.08          | 12   | 1.31          | 16   | 1.43          |      |               |      |               |  |  |
| PM weekly tour<br>2,000 BTU boiler<br>(gas)         | 0981126         | 1.05          |      |               |      |               |      |               | 1    | 9.57          |  |  |
| Replace 2,000<br>BTU boiler (gas)                   | 0981127         | 1.02          |      |               |      |               |      |               | 2    | 9.34          |  |  |
| Replace pipe or gutter                              | 0822102         | 1.01          |      |               | 23   | 1.16          |      |               | 7    | 3.19          |  |  |
| Replace wood<br>(multi-coat)<br>exterior, 1st floor | 0415F15         |               | 4    | 2.10          |      |               |      |               |      |               |  |  |
| Refinish board<br>(finished) interior<br>wall       | 0615704         |               | 7    | 1.83          |      |               |      |               |      |               |  |  |
| Total panel replacement-metal roof                  | 0311367         |               | 10   | 1.58          |      |               |      |               |      |               |  |  |
| PM 25 KBTU<br>house furnace (oil)                   | 0981D12         |               | 11   | 1.36          |      |               |      |               |      |               |  |  |
| Flashing repairs-<br>shingled roof                  | 0311355         |               | 14   | 1.08          | 22   | 1.19          |      |               |      |               |  |  |
| Replace 25 KBTU house furnace (oil)                 | 0981D13         |               | 15   | 1.04          |      |               |      |               |      |               |  |  |

### Community Fire station Cost by Task Task Description CACES % of ID No. Total Bragg Wood Devens Ord % of % of % of % of Rank Total Total Total Rank Rank Rank Total Replace wall 0981H01 16 1.04 1.35 16 rediator, finned 10' section 0427502 Repair wood 17 1.04 single roll-up door Repair solid core 0533212 18 1.00 21 1.12 wood painted interior door Replace 1 HP air 0831113 4 2.71 compressor Refinish sheetrock 0611304 5 2.47 (unstippled) wall Replace CW 0813702 6 2.33 expansiom chamber Refinish aluminum 0415124 8 2.11 siding, 2nd floor Refinish aluminum 0415114 10 1.71 siding, 1st floor Replace 1115103 13 1.54 switchgear, indoor 0-600V PM & inspect 1123602 17 1.37 18 1.30 motor starter, 0-600V Replace 2-ton 0991223 19 1.33 window A/C Replace 062D102 20 1.32 bituminous flooring Replace LPG 0931101 24 1,10 storage tank,

1,000-gal

| Community | Fire station |
|-----------|--------------|
| Cost b    | y Task       |

| Task Description                                   | CACES   | % of  |      |               |      | <del> </del>  |      |               |      |               |
|--|---------|-------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description                                   | ID No.  | Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | O    | rd            |
|  |         |       | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM 2-ton window<br>A/C                             | 0991222 |       |      |               | 25   | 1.04          |      |               |      |               |
| Refinish aluminum panel ceiling                    | 0636104 |       |      |               | 27   | 1.02          | 15   | 1.52          |      |               |
| PM weekly tour<br>250 BTU boiler<br>(oil)          | 0981314 |       |      |               |      |               | 4    | 4.89          |      |               |
| PM weekly tour<br>2,000 BTU boiler<br>(dual-fired) | 0981414 |       |      |               |      |               | 5    | 4.89          |      |               |
| Replace broken pipe insulation                     | 0984142 |       |      |               |      |               | 6    | 3.22          |      |               |
| PM heat/cool thermostat                            | 09E1111 |       |      |               |      |               | 9    | 2.23          |      |               |
| PM 400 CFM unit heater                             | 09A1D12 |       |      |               |      |               | 10   | 1.78          |      |               |
| Replace radiator, baseboard 10' section            | 0981G01 |       |      |               |      |               | 14   | 1.52          |      |               |
| Replace 250 BTU boiler (oil)                       | 0981316 |       |      |               |      |               | 17   | 1.18          |      |               |
| PM ann. 2,000<br>BTU boiler (dual-<br>fired)       | 0981412 |       |      |               |      |               | 18   | 1.13          |      |               |
| Minor membrane repairs-BUR                         | 0311103 |       |      |               |      |               | 20   | 1.08          | 9    | 3.12          |
| M&R fluorescent lighting fixture                   | 1131301 |       |      |               |      |               | 21   | 1.05          |      |               |
| Flashing repairs -<br>BUR                          | 0311105 |       |      |               |      |               | 22   | 1.03          | 8    | 3.17          |
| PM 1-ton window<br>A/C                             | 0991212 |       |      |               |      |               | 23   | 1.01          |      |               |

| Community Fire station Cost by Task            |                 |               |      |               |      |               |      |               |      |               |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                               | CACES<br>ID No. | % of<br>Total | Br   | agg           | Wo   | ood           | Dev  | vens          | o    | rd            |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Refinish concrete exterior wall, 1st floor     | 0415A14         |               |      |               |      |               |      |               | 6    | 3.83          |  |
| Replace<br>switchgear, indoor<br>above 600V    | 1117203         |               |      | ·             |      |               |      |               | 10   | 2.99          |  |
| Replace ceramic trim-interior                  | 0561405         |               |      |               |      |               |      |               | 11   | 2.72          |  |
| Replace pipe & fittings, waste & vent          | 0812103         |               |      |               | ·    |               |      |               | 13   | 1.97          |  |
| Repair 2,000 BTU<br>boiler (gas)               | 0981121         |               |      |               |      |               |      |               | 14   | 1.60          |  |
| General M&R distrib., gutters, pipe            | 0822101         |               |      |               |      |               |      |               | 15   | 1.52          |  |
| Repair concrete<br>exterior wall, 1st<br>floor | 0415A12         |               |      |               |      |               |      |               | 16   | 1.35          |  |
| Replace unfinished concrete floor              | 062B102         |               |      |               |      |               |      |               | 17   | 1.34          |  |
| Replace aluminum operable window, 1st floor    | 0431115         |               |      |               |      |               |      |               | 19   | 1.29          |  |
| PM 1,200 CFM unit heater                       | 09A1D22         |               |      |               |      |               |      |               | 20   | 1.18          |  |
| Replace pipe & fittings, copper CW             | 0813203         |               |      |               |      |               |      |               | 22   | 1.06          |  |
| Replace pipe & fittings, copper HW             | 0814203         |               |      |               |      |               |      |               | 23   | 1.06          |  |

#### **Chapel Center Facilities** Cost by Task CACES % of Task Description ID No. Total Bragg Wood Devens Ord % of % of % of % of Total Rank Total Rank **Total** Rank Total Rank 9.31 6.28 19.95 0629102 10.71 13.69 Replace carpet 1 062A202 9 1.49 3 2.19 8 2.74 6 3.39 Replace vinyl 2.11 asbestos tile flooring 14 1.29 6 4.01 1.59 0612404 1.94 10 1.39 16 Refinish concrete block (painted) interior wall 0984142 1.65 2 7.02 Replace broken pipe insulation 2 3.55 2 6.07 1114103 1.54 Replace xfrmr, liquid filled above 600V 7 18 1.20 9 2.69 0311357 1.49 1.59 13 1.32 Replacement of shingled roof Replace carpeted 0614805 1.49 2 3.79 interior wall 7 Minor repairs-18 1.06 15 1.31 3.03 0311353 1.34 14 1.30 shingled roof 1.90 09E1111 12 1.35 4 PM heat/cool 1.21 thermostat 14 18 1.45 Replace 1131303 1.18 8 1.59 1.33 fluorescent lighting fixture 9 Refinish aluminum 0415I14 1.15 6 1.64 1.55 siding, 1st floor 0533112 1.12 3 2.46 Repair hollow core (painted) wood interior door Place new over 0311356 1.12 22 1.04 19 1.19 10 2.65 existing shingled 1.23 20 1.05 Refinish sheetrock 0611304 1.11 17 1.22 16

(unstippled) wall

### Chapel Center Facilities Cost by Task

|  | Cost by Task    |               |      |               |      |               |      |               |      |               |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                                     | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens ens       | O    | rd            |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace wall radiator, finned 10' section            | 0981Н01         | 1.10          |      |               |      |               | 4    | 4.14          |      |               |  |
| Refinish aluminum siding, 2nd floor                  | 0415I24         | 1.07          | 15   | 1.28          | 6    | 1.75          |      |               |      |               |  |
| Membrane<br>removal &<br>replacement-BUR             | 0311107         | 1.07          | 8    | 1.52          | -    |               | 17   | 1.25          |      |               |  |
| PM weekly tour<br>250 BTU boiler<br>(oil)            | 0981314         | 1.03          | 21   | 1.09          | 5    | 1.86          |      |               |      |               |  |
| PM chiller-air cool recip. 10-ton                    | 0991452         |               | 4    | 2.12          |      |               |      |               |      |               |  |
| Refinish wood<br>(multi-coat)<br>exterior, 1st floor | 0415F14         |               | 5    | 2.04          |      |               |      |               |      |               |  |
| Place new<br>membrane over<br>existing BUR           | 0311106         |               | 11   | 1.35          |      |               |      |               |      |               |  |
| Replace pipe or gutter                               | 0822102         |               | 13   | 1.33          |      | į             | 22   | 1.01          | 24   | 1.20          |  |
| Debris removal & inspect - BUR                       | 0311101         |               | 16   | 1.24          |      |               |      |               |      |               |  |
| Replace single<br>zone draw thru<br>10,000 CFM       | 09A1C24         |               | 18   | 1.20          |      |               |      |               |      |               |  |
| Replace chiller-air cool recip. 10-ton               | 0991453         |               | 19   | 1.12          |      |               |      |               |      |               |  |
| Replace hollow core (painted) wood interior door     | 0533115         |               | 20   | 1.10          |      |               |      |               |      |               |  |
| Replace linoleum floor                               | 062A102         |               | 23   | 1.02          |      |               |      |               |      |               |  |

| Chapel | Center   | <b>Facilities</b> |  |
|--------|----------|-------------------|--|
| Co     | ost by T | lask .            |  |

|  |                 | ···           | C    | ost by Ta     | isk  | z             |      |               |      |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description                                   | CACES<br>ID No. | % of<br>Total | Br   | agg           | Wo   | ood           | De   | vens          | o    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM chiller-air cool recip. 5-ton                   | 0991442         |               |      |               | 7    | 1.64          |      |               |      |               |
| PM battery, secondary dry                          | 1283401         |               |      |               | 10   | 1.42          |      |               |      |               |
| Replace 1,200<br>CFM 2-pipe fan<br>coil unit       | 09A1944         |               |      |               | 11   | 1.37          | -    |               |      |               |
| Replace solid core (painted) wood interior door    | 0533212         |               |      |               | 12   | 1.36          |      |               | 13   | 1.93          |
| PM & inspect motor starter, 0-600V                 | 1123602         |               |      |               | 15   | 1.28          |      |               | 14   | 1.86          |
| Replace single-<br>zone draw thru<br>25,000 CFM    | 09A1C34         |               |      |               | 17   | 1.22          |      |               |      |               |
| Replace exhaust fan 10,000 CFM                     | 09C1133         |               |      |               |      |               | 3    | 4.27          |      |               |
| PM exhaust fan<br>10,000 CFM                       | 09C1132         |               |      |               |      |               | 5    | 4.05          |      |               |
| Repair wood<br>louvered interior<br>doors          | 0534232         |               |      |               |      |               | 7    | 3.27          |      |               |
| Replace 2,000<br>BTU boiler (dual-<br>fired)       | 0981415         |               |      |               |      |               | 9    | 1.73          | 8    | 3.01          |
| Replace 2,000<br>BTU boiler (oil)                  | 0981326         |               |      |               |      |               | 10   | 1.44          |      |               |
| Refinish sheetrock (unstippled) ceiling            | 0631304         |               |      |               |      |               | 11   | 1.41          |      |               |
| PM weekly tour<br>2,000 BTU boiler<br>(dual-fired) | 0981414         |               |      |               |      |               | 12   | 1.40          | 11   | 2.57          |

| Chapel Center Facilities<br>Cost by Task                    |                 |               |      |               |      |               |      |               |      |               |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens ens       | O    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM weekly tour<br>2,000 BTU boiler<br>(oil)                 | 0981324         |               |      |               |      |               | 13   | 1.40          |      |               |
| Refinish wood<br>frame (painted)<br>fixed wdw, 2nd<br>floor | 0432324         |               |      |               |      |               | 16   | 1.27          |      |               |
| Replace exhaust<br>fan 25,000 CFM                           | 09C1143         |               |      |               |      |               | 21   | 1.04          | -    |               |
| Refinish painted concrete block exterior wall, 1st floor    | 0415914         |               |      |               |      |               |      |               | 3    | 5.26          |
| Replace radiator,<br>baseboard 10'<br>section               | 0981G01         |               |      |               |      |               |      |               | 4    | 3.69          |
| Refinish plaster ceiling                                    | 0631104         |               |      |               |      |               |      | _             | 5    | 3.60          |
| Flashing repairs -<br>shingled roof                         | 0311355         |               |      |               |      |               |      |               | 12   | 1.98          |
| Replace xfrmr,<br>liquid filled above<br>600V               | 1114101         |               |      |               |      |               |      |               | 15   | 1.63          |
| Replace double pane wood frame operable window, 1st floor   | 0431815         |               |      |               |      |               |      |               | 17   | 1.51          |
| Replace switchgear indoor below 600V                        | 1117103         |               |      |               |      |               |      |               | 19   | 1.45          |
| Replace hot water<br>heater, electric,<br>300-gal           | 0814I03         |               |      |               |      |               |      |               | 20   | 1.38          |

| Chapel Center Facilities<br>Cost by Task                   |                 |               |       |               |      |               |        |               |      |               |  |  |
|--|-----------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|--|--|
| Task Description   | CACES<br>ID No. | % of<br>Total | Bragg |               | Wood |               | Devens |               | O    | rd            |  |  |
|  |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |  |  |
| Refinish double pane wood frame operable window, 1st floor | 0431814         |               |       |               |      |               |        |               | 21   | 1.29          |  |  |
| Repair plaster ceiling                                     | 0631102         |               |       |               |      |               |        |               | 22   | 1.29          |  |  |
| Debris removal & inspect-shingled roof                     | 0311351         |               |       |               |      |               |        |               | 23   | 1.21          |  |  |
| Replace solid core<br>(painted) wood<br>interior door      | 0533215         |               |       |               |      |               |        |               | 25   | 1.13          |  |  |

## Auditorium/Theatre Facility Cost by Task

| Cost by Task  |                 |               |      |               |      |               |      |               |      |               |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description                                      | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens/          | 0    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM battery,<br>primary wet                            | 1283101         | 4.25          |      |               |      |               | 1    | 16.64         |      |               |
| Replace carpet  | 0629102         | 3.43          |      |               | 1    | 4.62          | 3    | 3.27          |      |               |
| Membrane<br>removal &<br>replacement-BUR              | 0311107         | 3.23          |      |               | 3    | 2.67          | 2    | 3.90          | 2    | 4.03          |
| Debris removal & inspection-BUR                       | 0311101         | 2.55          |      |               | 7    | 2.16          | 4    | 2.98          | 4    | 3.15          |
| Place new<br>membrane over<br>existing-BUR            | 0311106         | 2.55          |      |               | 5    | 2.40          | 5    | 2.67          | 7    | 2.85          |
| Refinish acoustical wall tile                         | 0619204         | 2.16          |      |               | 2    | 2.95          | 14   | 1.94          |      |               |
| Replace<br>switchgear, indoor<br>below 600V           | 1117103         | 1.87          |      |               | 14   | 1.84          | 19   | 1.64          | 12   | 2.29          |
| Flashing repairs-<br>BUR                              | 0311105         | 1.69          |      |               | 19   | 1.52          | 17   | 1.79          | 15   | 2.06          |
| Replace 2,000<br>BTU boiler (oil)                     | 0981326         | 1.67          |      |               | 10   | 1.98          | 6    | 2.19          |      |               |
| Minor membrane repairs-BUR                            | 0311103         | 1.66          |      |               | 20   | 1.44          | 15   | 1.88          | 16   | 2.02          |
| PM weekly tour<br>2,000 BTU boiler<br>(oil)           | 0981324         | 1.62          |      |               | 12   | 1.91          | 10   | 2.13          |      |               |
| Refinish concrete<br>block (painted)<br>interior wall | 0612404         | 1.49          |      |               | 23   | 1.09          | 13   | 1.99          | 18   | 1.99          |
| PM 50 tons<br>chillers WCH<br>recip.                  | 0991522         | 1.48          |      |               | 4    | 2.63          |      |               |      |               |
| Refinish concrete decking-porch                       | 0441104         | 1.45          |      |               | 8    | 2.04          | 21   | 1.12          |      |               |

| Auditorium/Theatre Facility Cost by Task        |                 |            |      |               |      |               |      |               |      |               |  |
|---|-----------------|------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                                | CACES<br>ID No. | % of Total | :    |               | Wo   | ood           | Dev  | ens/          | Ord  |               |  |
|   |                 |            | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace single-<br>zone draw thru<br>25,000 CFM | 09A1C34         | 1.41       |      |               | 18   | 1.59          |      |               | 8    | 2.82          |  |
| Replace vinyl asbestos tile flooring            | 062A202         | 1.38       |      |               |      |               | 11   | 2.09          | ŷ    | 2.75          |  |
| Replace xfmr, liquid filled, above 600V         | 1114103         | 1.37       |      |               | 17   | 1.70          |      |               | 13   | 2.25          |  |
| PM/inspect motor starter, 0-600V                | 1123602         | 1.34       |      |               | 16   | 1.72          |      |               | 27   | 1.00          |  |
| Replace chiller, 50 tons, WCH recip.            | 0991523         | 1.30       |      |               | 6    | 2.31          |      |               |      |               |  |
| Replace broken pipe insulation                  | 0984142         | 1.30       |      |               | 13   | 1.88          |      |               |      |               |  |
| Replace deaerator                               | 0981A13         | 1.19       |      |               |      |               |      |               | 1    | 6.54          |  |
| PM chiller-air cool recip. 10 ton               | 0991452         | 1.14       |      |               | 9    | 2.03          |      |               |      |               |  |
| Replace 2,000<br>BTU boiler (gas)               | 0981127         | 1.12       |      |               |      |               | 7    | 2.19          | 5    | 3.09          |  |
| PM weekly tour 2,000 BTU boiler (gas)           | 0981126         | 1.12       |      |               |      |               | 9    | 2.13          | 3    | 3.17          |  |
| Repair hermetic chiller, 50 tons                | 0991521         | 1.08       |      |               | 11   | 1.91          |      |               |      |               |  |
| Refinish sheetrock (unstippled) ceiling         | 0631304         | 1.02       |      |               | 15   | 1.74          |      |               |      |               |  |
| Refinish plaster ceiling                        | 0631104         | 1.01       |      |               |      |               | 8    | 2.19          | 11   | 2.46          |  |
| Refinish aluminum siding, 2nd floor             | 0415I24         |            |      |               | 21   | 1.29          |      |               |      |               |  |

| Auditorium/Theatre Facility Cost by Task           |                 |               |      |               |      |               |      |               |      |               |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                                   | CACES<br>ID No. | % of<br>Total | Bra  | Bragg         |      | ood           | Dev  | ens ens       | O    | rd            |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace 100 tons evaporative condsr                | 0991D23         |               |      |               | 22   | 1.13          |      |               |      |               |  |
| Repair concrete decking-porch                      | 0441102         |               |      |               | 24   | 1.06          |      |               |      |               |  |
| Refinish aluminum siding, 1st floor                | 0415114         |               |      |               | 25   | 1.01          |      |               |      |               |  |
| Refinish stucco<br>interior wall                   | 0611404         |               |      |               |      |               | 12   | 2.01          |      |               |  |
| Replace 10,000<br>CFM multi-zone<br>unit           | 09A1124         |               |      |               |      |               | 16   | 1.86          |      |               |  |
| PM 50 tons chillers ACH recip.                     | 0991422         |               |      |               |      |               | 18   | 1.73          |      |               |  |
| Replace chiller, 50 tons ACH recip.                | 0991423         |               |      |               |      |               | 20   | 1.20          |      |               |  |
| Repair hermetic chiller, 50 tons, ACH recip.       | 0991421         |               |      |               |      |               | 22   | 1.08          |      |               |  |
| Replace wood<br>louvers in frame,<br>1st floor     | 0433112         |               |      |               |      |               |      |               | 6    | 2.87          |  |
| Refinish wood<br>louvers in frame,<br>1st floor    | 0433114         |               |      |               |      |               |      |               | 10   | 2.51          |  |
| PM/replace filter<br>50,000 CFM<br>multi-zone unit | 09C1143         |               |      |               |      |               |      |               | 14   | 2.14          |  |
| PM heat/cool<br>thermostat                         | 09E1111         |               |      |               |      |               |      |               | 17   | 2.01          |  |
| PM deaerator                                       | 0981A12         |               |      |               |      |               |      |               | 19   | 1.75          |  |

### Auditorium/Theatre Facility Cost by Task

| Task Description  | CACES<br>ID No. | % of<br>Total | Bragg |               | Wo   | ood           | Dev  | ens           | O    | rd            |
|---|-----------------|---------------|-------|---------------|------|---------------|------|---------------|------|---------------|
|   |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM annual 50,000<br>CFM multi-zone<br>unit                          | 09C1142         |               |       |               |      |               |      |               | 20   | 1.53          |
| Replace hot water<br>heater, gas/oil<br>1,000 GPH. rec              | 0814F03         |               |       |               |      |               |      |               | 21   | 1.52          |
| Refinish concrete exterior wall, 3rd floor                          | 0415A34<br>-    |               |       |               |      |               |      |               | 22   | 1.51          |
| Replace aluminum (P & A) interior door                              | 0531312         |               |       |               |      |               |      |               | 23   | 1.32          |
| Clean and service<br>hot water heater,<br>gas/oil 1,000 GPH<br>rec. | 0814F02         |               |       |               |      |               |      |               | 24   | 1.27          |
| Replace 1 HP air compressor   | 0831113         |               |       |               |      |               |      |               | 25   | 1.05          |
| M & R duct heaters  | 1274001         |               |       |               |      |               |      |               | 26   | 1.00          |

| Bowling Center Cost by Task                  |                 |      |      |               |      |               |      |               |      |               |
|--|-----------------|------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description                             | CACES<br>ID No. |      |      | Bragg         |      | ood           | Dev  | vens          | Ord  |               |
|  |                 |      | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Total panel replacement-metal roof           | 0311367         | 4.91 |      |               |      |               | 1    | 28.64         |      |               |
| Membrane<br>removal &<br>replacement-BUR     | 0311107         | 3.94 | 1    | 6.93          |      |               |      |               | 1    | 7.30          |
| Replace carpet                               | 0629102         | 3.59 | 2    | 6.54          |      |               | 3    | 3.55          |      |               |
| Place new<br>membrane over<br>existing-BUR   | 0311106         | 3.33 | 3    | 6.16          |      |               |      |               | 5    | 5.17          |
| Debris removal & inspection BUR              | 0311101         | 3.19 | 4    | 5.68          |      |               |      |               | 2    | 5.70          |
| Replace wood parquetry floor                 | 0625103         | 3.06 |      |               | 3    | 4.96          | 2    | 5.45          | 3    | 5.69          |
| Replace vinyl asbestos tile flooring         | 062A202         | 2.58 | 15   | 1.92          | 7    | 3.59          | 9    | 1.95          | 9    | 3.39          |
| Replace<br>fluorescent lighting<br>fixture   | 1131303         | 2.52 | 11   | 2.38          | 12   | 2.39          | 11   | 1.78          | 6    | 4.15          |
| Replace 6,500<br>CFM multi-zone<br>unit      | 09A1114         | 2.34 | 5    | 5.56          |      |               |      |               |      |               |
| Flashing repairs-<br>BUR                     | 0311105         | 2.16 | 6    | 3.88          |      |               |      |               | 7    | 3.73          |
| Minor membrane repairs-BUR                   | 0311103         | 2.11 | 8    | 3.78          |      |               |      |               | 8    | 3.67          |
| Refinish steel<br>(painted) interior<br>wall | 0616304         | 2.07 | 18   | 1.69          | 2    | 5.02          |      |               |      |               |
| Replace<br>switchgear, indoor<br>below 600V  | 1117103         | 1.97 | 9    | 3.05          |      |               | 17   | 1.15          | 15   | 2.67          |

| Bowling Center<br>Cost by Task                        |                 |               |      |               |      |               |      |               |      |               |  |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                                      | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | O    | rd            |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace 50,000<br>CFM multi-zone<br>unit              | 09A1144         | 1.74          |      |               | 1    | 6.39          |      |               |      |               |  |
| Replace maple floor                                   | 0625203         | 1.63          | 7    | 3.87          |      |               |      |               |      |               |  |
| Replace acoustic tile (dropped) ceiling               | 0632205         | 1.48          | 17   | 1.81          | 23   | 1.17          | 16   | 1,24          | 22   | i.41          |  |
| Replace CW expansion chamber                          | 0813702         | 1.15          |      |               | 4    | 4.22          |      |               |      |               |  |
| Replace deaerator                                     | 0981A13         | 1.13          |      |               | 5    | 4.17          |      |               |      |               |  |
| Replacement of shingled roof                          | 0311357         | 1.12          |      |               | 6    | 4.10          |      |               |      |               |  |
| M & R fluorescent lighting fixture                    | 1131301         | 1.10          |      |               | 25   | 1.06          |      |               | 18   | 1.89          |  |
| PM battery,<br>secondary dry                          | 1283401         | 1.08          | 10   | 2.58          |      |               |      |               |      |               |  |
| Sand & refinish parquetry floor                       | 0625102         | 1.07          |      |               | 18   | 1.60          | 6    | 2.24          | 19   | 1.86          |  |
| Replace chiller 50 tons WCH recip.                    | 0991523         |               | 12   | 2.36          |      |               |      |               |      |               |  |
| PM chiller 50 tons<br>WCH recip.                      | 0991522         |               | 13   | 2.18          |      |               |      |               |      |               |  |
| Sand & refinish maple floor                           | 0625202         |               | 14   | 2.02          |      |               |      |               |      |               |  |
| Repair hermetic chiller 50 tons                       | 0991521         |               | 16   | 1.84          |      |               |      |               |      |               |  |
| Refinish concrete<br>block (painted)<br>interior wall | 0612404         |               | 19   | 1.49          |      |               |      |               |      |               |  |

### **Bowling Center** Cost by Task **CACES** % of Task Description ID No. Total Ord **Bragg** Wood **Devens** % of % of % of % of Total Rank Total Rank Total Rank Total Rank 09A1112 20 1.27 PM annual 6.500 CFM multi-zone unit PM/inspect safety 1122102 21 1.05 20 1.00 switch, enclosed Replace condenser 0991B33 22 1.02 20 tons PM/replace filters 09A1113 23 1.01 6,500 CFM multizone unit 0991433 8 3.42 Replace chiller 100 tons ACH recip. 0311353 9 3.30 Minor repairsshingled roof Place new over 0311356 10 2.68 existing-shingled roof 0991431 11 2.45 Repair hermetic chiller 100 tons 13 2.23 Flashing repairs-0311355 shingled roof Replace broken 0984142 14 2.04 pipe insulation Replace 2,000 0981326 15 1.97 BTU boiler (oil) 0981324 16 1.90 PM weekly tour 2,000 BTU boiler (oil) PM 100 tons 0991432 17 1.61

chillers ACH

recip.

| Bowlin | ng ( | Center |
|--------|------|--------|
| Cost   | by   | Task   |

|   |                 |               | C    | ost by Ta     | ask  |               |      |               |      |               |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens           | O    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace xfmr, liquid-filled above 600V                  | 1114103         |               |      |               | 19   | 1.45          |      |               | 12   | 2.88          |
| Debris removal & inspection-shingled roof               | 0311351         |               |      |               | 20   | 1.29          |      |               |      |               |
| Replace HW expansion chamber                            | 0814702         |               |      |               | 21   | 1.22          |      | -             |      |               |
| PM 400 CFM unit heater                                  | 09A1D12         |               |      |               | 22   | 1.17          |      |               |      |               |
| Replace<br>switchgear, main<br>frame 1200A              | 1113101         |               |      |               | 24   | 1.15          |      |               |      |               |
| PM deaerator  | 0981A12         |               |      |               | 26   | 1.05          |      |               |      |               |
| PM heat/cool<br>thermostat                              | 09E1111         |               |      |               | 27   | 1.04          |      |               |      |               |
| Refinish steel<br>(painted) exterior<br>wall, 1st floor | 0415L14         |               |      |               |      |               | 4    | 3.44          |      |               |
| Flashing<br>replacement-metal<br>roof                   | 0311365         |               |      |               |      |               | 5    | 2.55          |      |               |
| Replace 200<br>KBTU house<br>furnace (gas)              | 0981C33         |               |      |               |      |               | 7    | 2.15          |      |               |
| PM 20 tons<br>chillers ACH<br>recip.                    | 0991412         |               |      |               |      |               | 8    | 2.00          |      |               |
| PM battery,<br>primary dry                              | 1283201         |               |      | į             |      |               | 10   | 1.83          |      |               |
| PM chiller-air cool recip. 10-ton                       | 0991452         |               |      |               |      |               | 12   | 1.56          |      |               |

| Bowling Center Cost by Task                             |                 |               |      |               |      |               |      |               |      |               |  |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens/          | O    | rd            |  |
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace 6,500<br>CFM single-zone<br>draw thru           | 09A1C14         |               |      |               |      |               | 13   | 1.47          |      |               |  |
| Debris removal & inspection-metal roof                  | 0311361         |               |      |               |      |               | 14   | 1.42          |      |               |  |
| Refinish steel<br>(painted) exterior<br>wall, 2nd floor | 0415L24         |               |      |               |      |               | 15   | 1.25          |      |               |  |
| PM annual 6,500<br>CFM single-zone<br>draw thru         | 09A1C12         |               |      |               |      |               | 18   | 1.13          |      |               |  |
| PM 200 KBTU<br>house furnace<br>(gas)                   | 0981C32         |               |      |               |      |               | 19   | 1.11          |      |               |  |
| Refinish aluminum siding, 1st floor                     | 0415I14         |               |      |               |      |               |      |               | 4    | 5.59          |  |
| Repair 20 tons<br>A/C DX packaged                       | 0991121         |               |      |               |      |               |      |               | 10   | 3.09          |  |
| PM exhaust fan<br>10,000 CFM                            | 09C1132         |               |      |               |      |               |      |               | 11   | 2.90          |  |
| Replace exhaust fan 10,000 CFM                          | 09C1133         |               |      |               |      |               |      |               | 13   | 2.86          |  |
| Refinish sheetrock (stippled) wall                      | 0611204         |               |      |               |      |               |      |               | 14   | 2.68          |  |
| PM 20 tons A/C<br>DX packaged                           | 0991122         |               |      |               |      |               |      |               | 16   | 2.44          |  |
| Replace 20 tons<br>A/C DX packaged                      | 0991123         |               |      |               |      |               |      |               | 17   | 2.27          |  |
| PM/inspect motor starter, 0-600V                        | 1123602         |               |      |               |      |               | <br> |               | 20   | 1.84          |  |

| Bowling Center<br>Cost by Task     |                 |               |      |               |      |               |      |               |      |               |  |
|------------------------------------|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                   | CACES<br>ID No. | % of<br>Total | 1 1  |               |      |               |      |               |      |               |  |
|                                    | ·               |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace aluminum siding, 1st floor | 0415115         |               |      |               |      |               |      |               | 21   | 1.42          |  |

|   |                 |               |      | Support<br>ost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|----------------------|------|---------------|------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg                  | Wo   | ood Devens    |      | ens ens       | Ord  |               |
|   |                 |               | Rank | % of<br>Total        | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Total panel replacement-metal roof                                | 0311367         | 13.52         | 1    | 20.48                |      |               |      |               |      |               |
| Replace carpet  | 0629102         | 5.82          | 3    | 3.62                 |      |               | 4    | 5.43          | 1    | 11.79         |
| Replace linoleum floor  | 062A102         | 3.04          | 2    | 4.61                 |      |               |      |               |      |               |
| Refinish sheetrock (unstippled) wall                              | 0611304         | 2.38          | 5    | 3.19                 |      |               | 5    | 3.08          |      |               |
| PM battery,<br>secondary dry                                      | 1283401         | 2.33          | 4    | 3.52                 |      |               |      |               |      |               |
| Refinish wood<br>finished (multi-<br>coat) exterior, 1st<br>floor | 0415F14         | 2.04          | 14   | 1.11                 |      |               |      |               | 3    | 5.26          |
| Repair hollow core<br>(painted) wood<br>interior door             | 0533112         | 2.03          | 6    | 3.08                 |      |               |      |               |      |               |
| Replace C.W. expansion chamber                                    | 0813702         | 2.01          |      |                      |      |               |      |               | 2    | 8.06          |
| PM chiller-air cool recip. 10-ton                                 | 0991452         | 1.51          | 7    | 2.30                 |      |               |      |               |      |               |
| Replace vinyl asbestos tile flooring                              | 062A202         | 1.46          |      |                      |      |               | 15   | 1.62          | 5    | 3.61          |
| Replacement of shingled roof                                      | 0311357         | 1.33          |      |                      |      |               | 13   | 1.75          | 6    | 3.38          |
| Replace hot water<br>heater, electric,<br>120-gal                 | 0814Н03         | 1.32          | 8    | 2.00                 |      |               |      |               |      |               |
| Replace<br>fluorescent lighting<br>fixture                        | 1131303         | 1.32          |      |                      |      |               | 7    | 2.67          | 14   | 2.37          |

|  | Child Support Center<br>Cost by Task |               |      |               |      |               |      |               |      |               |  |  |  |
|--|--------------------------------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|--|
| Task Description                                 | CACES<br>ID No.                      | % of<br>Total | Br   | agg           | Wo   | ood           | Dev  | ens/          | o    | rđ            |  |  |  |
|  |                                      |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |  |
| Replace broken pipe insulation                   | 0984142                              | 1.31          |      |               |      |               | 1    | 7.47          |      |               |  |  |  |
| Refinish sheetrock (stippled) wall               | 0611204                              | 1.22          |      |               |      |               |      |               | 4    | 4.90          |  |  |  |
| Repair solid core (painted) wood interior door   | 0533212                              | 1.18          |      |               |      |               | 11   | 1.98          | 11   | 2.64          |  |  |  |
| Minor repairs-<br>shingled roof                  | 0311353                              | 1.17          |      |               |      |               | 12   | 1.93          | 8    | 2.94          |  |  |  |
| Flashing<br>replacement-metal<br>roof            | 0311365                              | 1.10          | 9    | 1.67          |      |               |      |               |      |               |  |  |  |
| Replace smoke detector                           | 1221203                              | 1.02          |      |               |      |               | 20   | 1.16          | 21   | 1.26          |  |  |  |
| Place new over<br>existing-shingled<br>roof      | 0311356                              | 1.01          |      |               |      |               | 14   | 1.74          | 13   | 2.56          |  |  |  |
| Replace hollow core (painted) wood interior door | 0533115                              |               | 10   | 1.38          |      |               |      |               |      |               |  |  |  |
| Total roof<br>replacement-roll<br>roofing        | 0311347                              |               | 11   | 1.36          |      |               |      |               |      |               |  |  |  |
| Replace chiller-air cool recip. 10-ton           | 0991453                              |               | 12   | 1.21          |      |               |      |               |      |               |  |  |  |
| Replace carpeted interior wall                   | 0614805                              |               | 13   | 1.17          |      |               |      |               |      |               |  |  |  |
| Replace formica                                  | 0614105                              |               | 15   | 1.04          |      |               |      |               |      |               |  |  |  |
| Replace pipe & fittings, waste & vent            | 0812103                              |               | 16   | 1.01          |      |               |      |               |      |               |  |  |  |

### **Child Support Center** Cost by Task Task Description **CACES** % of ID No. Total **Bragg** Wood **Devens** Ord % of % of % of % of Total Rank Rank Total Rank Total Rank Total Replace 2,000 0981326 2 6.36 BTU boiler (oil) PM weekly tour 0981324 3 6.18 2,000 BTU boiler (oil) 09E1111 PM heat/cool 6 3.07 thermostat 0631304 Refinish sheetrock 8 2.47 (unstippled) ceiling PM 400 CFM Unit 09A1D12 9 2.25 heater 0625103 Replace wood 10 2.11 parquetry floor 0631102 Repair plaster 29 1.05 ceiling Refinish solid core 0533214 19 16 1.25 1.35 (painted) wood interior door PM on steam trap, 0984372 17 1.20 F & T <1" M & R fluorescent 1131301 27 18 1.20 1.08 lighting fixture Flashing repairs-0311355 19 1.19 15 1.92 shingled roof PM 1,200 CFM 09A1D22 21 1.13 unit heater 0981325 PM/clean burner 22 1.11 2,000 BTU boiler (oil) Replace 1117103 23 1.10 16 1.60 switchgear, indoor below 600V

|   |                 |               |      | Support<br>ost by Ta |      |                                 |      |               |      |               |
|---|-----------------|---------------|------|----------------------|------|---------------------------------|------|---------------|------|---------------|
| Task Description                                  | CACES<br>ID No. | % of<br>Total | Bra  | agg                  | Wo   | ood                             | Dev  | ens .         | Ord  |               |
|   |                 |               | Rank | % of<br>Total        | Rank | % of<br>Total                   | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace steam trap<br>F & T <1"                   | 0984373         |               |      |                      |      |                                 | 24   | 1.08          |      |               |
| Replace pneumatic thermostat                      | 09E1112         |               |      |                      |      |                                 | 25   | 1.07          |      |               |
| PM/annual<br>inspection 2,000<br>BTU boiler (oil) | 0981322         |               |      |                      |      | - verige constitutions over the | 26   | 1.05          |      |               |
| Replace H.W. expansion chamber                    | 0814702         |               | •    |                      |      |                                 |      |               | 7    | 2.97          |
| Refinish plaster ceiling                          | 0631104         |               |      |                      |      |                                 |      |               | 9    | 2.87          |
| Replace cast iron radiator, 10' section           | 0943101         |               |      |                      |      |                                 |      |               | 10   | 2.85          |
| Replace steam regulator valve-2"                  | 0941301         |               |      |                      |      |                                 |      |               | 12   | 2.59          |
| Replace solid core (painted) wood interior door   | 0533215         |               |      |                      |      |                                 |      |               | 17   | 1.55          |
| Replace insulation, air separator                 | 09843A2         |               |      |                      |      |                                 |      |               | 18   | 1.40          |
| Replace brass<br>closer exterior<br>hardware      | 0473105         |               |      |                      |      |                                 |      |               | 20   | 1.27          |
| Replace hot water<br>heater, gas/oil,<br>75-gal   | 0814E03         |               |      |                      |      |                                 |      |               | 22   | 1.23          |
| Replace brass interior lockset                    | 0582105         |               |      |                      |      |                                 |      |               | 23   | 1.21          |
| Debris removal & inspection-shingled roof         | 0311351         |               |      |                      |      |                                 |      |               | 24   | 1.17          |

| Child Support Center<br>Cost by Task                  |                                    |  |      |               |      |               |      |               |      |               |  |
|---|------------------------------------|--|------|---------------|------|---------------|------|---------------|------|---------------|--|
| Task Description                                      | CACES % of ID No. Total Bragg Wood |  |      |               |      |               |      | ens ens       | 0    | rd            |  |
|   |                                    |  | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |
| Replace brass interior closer                         | 0583105                            |  |      |               |      |               |      |               | 25   | 1.16          |  |
| Replace solid core (painted) wood exterior door       | 0423215                            |  |      |               |      |               |      |               | 26   | 1.14          |  |
| Clean/service hot<br>water heater,<br>gas/oil, 75-gal | 0814E02                            |  |      |               | -    |               |      |               | 28   | 1.06          |  |

|   |                 |               |      | ommissa<br>ost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|----------------------|------|---------------|------|---------------|------|---------------|
| Task Description                                | CACES<br>ID No. | % of<br>Total | Bra  | agg                  | Wo   | od            | Dev  | ens .         | o    | rd            |
|   |                 |               | Rank | % of<br>Total        | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Total roof replacement, roll roofing            | 0311347         | 10.90         | 8    | 2.71                 |      |               | 1    | 20.26         |      |               |
| Replace generator compgasoline powered          | 1281103         | 7.87          | 1    | 16.88                |      |               | 3    | 7.78          |      |               |
| Minor roofing repair-roll roofing               | 0311343         | 7.48          | 9    | 1.89                 |      |               | 2    | 13.88         |      |               |
| PM chiller-water cool recip. 10 ton             | 0991542         | 3.29          | 2    | 14.15                |      |               |      |               |      |               |
| Replace wood (finished) ceiling                 | 0635105         | 2.59          |      |                      |      |               | 4    | 5.11          |      |               |
| Replace<br>fluorescent lighting<br>fixture      | 1131303         | 2.14          |      |                      | 8    | 2.90          | 7    | 2.52          |      |               |
| Replace vinyl asbestos tile flooring            | 062A202         | 1.88          | 7    | 3.12                 | 4    | 4.44          |      |               |      |               |
| PM chiller-air cool recip. 5 ton                | 0991442         | 1.80          | 11   | 1.40                 | 1    | 5.66          |      |               |      |               |
| Refinish steel<br>(painted) interior<br>wall    | 0616304         | 1.57          |      |                      |      |               | 5    | 3.10          |      |               |
| Refinish wood (finished) ceiling                | 0635104         | 1.50          |      |                      |      |               | 6    | 2.95          |      |               |
| Refinish concrete floor                         | 062B202         | 1.36          |      |                      |      |               | 8    | 2.43          |      |               |
| Replace chiller-<br>water cool recip.<br>10 ton | 0991543         | 1.30          | 3    | 5.58                 |      |               |      |               |      |               |
| Flashing repairs-<br>roll roofing               | 0311345         | 1.24          |      |                      |      |               | 9    | 2.29          |      |               |

|  |                 |            |      | ommissa       |      |               |      |               |      |               |
|--|-----------------|------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description                                     | CACES<br>ID No. | % of<br>To | Br   | agg           | Wo   | ood           | Dev  | vens          | o    | rd            |
|  |                 |            | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Membrane<br>removal &<br>replacement-BUR             | 0311107         | 1.23       | 18   | 1.03          | 5    | 3.81          |      |               |      |               |
| Repair steel<br>louvers with<br>frame, 1st floor     | 0433312         | 1.21       |      |               | 2    | 4.66          |      |               |      |               |
| Refinish steel<br>louvers with<br>frame, 1st floor   | 0433314         | 1.21       |      |               | 3    | 4.64          |      |               | -    |               |
| Replace<br>switchgear, indoor<br>below 600V          | 1117103         | 1.20       | 13   | 1.36          | 17   | 1.35          | 21   | 1.04          |      |               |
| Replace finished concrete floor                      | 062B203         | 1.16       |      |               |      |               | 10   | 2.10          |      |               |
| Place new<br>membrane over<br>existing-BUR           | 0311106         | 1.10       |      |               | 6    | 3.42          |      |               |      |               |
| PM single-zone<br>draw thru 1,000<br>CFM             | 09A1C52         | 1.03       | 4    | 4.41          |      |               |      |               |      |               |
| PM/inspect motor starter, 0-600V                     | 1123602         | 1.02       |      |               | 9    | 2.66          |      |               |      |               |
| Repair chiller-<br>water cool recip.<br>10 ton       | 0991541         |            | 5    | 4.16          |      |               |      |               |      |               |
| Replace single-<br>zone draw thru<br>1,000 CFM       | 09A1C54         |            | 6    | 3.77          |      |               |      |               |      |               |
| Replace filter<br>single-zone draw<br>thru 1,000 CFM | 09A1C53         |            | 10   | 1.76          |      |               |      |               |      |               |
| Replace 2,000<br>BTU boiler (gas)                    | 0981127         |            | 12   | 1.38          |      |               |      |               |      |               |

|   |                 |               |      | ommissa<br>ost by Ta |      |  |      |  |        |               |
|---|-----------------|---------------|------|----------------------|------|--|------|--|--------|---------------|
| Task Description                                | CACES<br>ID No. | % of<br>Total | Br   | agg                  | Wo   | ood                                    | Dev  | ens/   | c      | rd            |
|   |                 |               | Rank | ⊊ of<br>Total        | Rank | % of<br>Total                          | Rank | % of<br>Total  | Rank   | % of<br>Total |
| Replace single-<br>zone draw thru<br>25,000 CFM | 09A1C34         |               | 14   | 1.27                 |      | egyman datus                           |      |  |        |               |
| PM weekly tour 2,000 BTU boiler (g. )           | 0981126         |               | 15   | 1.27                 |      | ************************************** |      |  |        |               |
| Replace broken pipe insulation                  | 0984142         |               | 16   | 1.12                 | 18   | 1.30                                   |      |  | ·<br>· |               |
| Replace 250W<br>HID mercury<br>vapor fixture    | 1131413         |               | 17   | 1.07                 |      |  |      | The second of th |        |               |
| Debris removal & inspection-BUR                 | 0311101         |               |      |                      | 7    | 3.06                                   |      |  |        |               |
| PM battery,<br>secondary dry                    | 1283401         |               |      |                      | 10   | 2.36                                   |      |  |        |               |
| Replace 25,000<br>CFM multi-zone<br>unit        | 09A1134         |               |      |                      | 11   | 2.32                                   |      | **************************************   | 44.    |               |
| Flashing repairs-<br>BUR                        | 0311105         |               |      |                      | 12   | 2.17                                   |      |  |        |               |
| Replace chiller-air coor recip. 5 ton           | 0991443         |               |      | -                    | 13   | 2.15                                   |      |  |        |               |
| Minor membrane reapairs-BUR                     | 0311103         |               |      |                      | 14   | 2.06                                   |      |  |        |               |
| PM safety switch, fused 3P                      | 1122432         |               |      |                      | 15   | 1.62                                   |      |  |        |               |
| Replace chiller-air cool recip. 5 ton           | 0991441         |               |      |                      | 16   | 1.49                                   |      |  |        |               |
| M & R fluorescent lighting fixture              | 1131301         |               |      |                      | 19   | 1.29                                   | 19   | 1.13   |        |               |
| PM childer-air cool recip. 5 ton                | 0991452         |               |      |                      | 20   | 1.28                                   |      |  |        |               |

## Commissary Cost by Task Task Description CACES % of ID No. Total Bragg Wood Devens Ord % of % of % of % of Total Rank Rank Total Rank Total Rank Total 0981314 PM weekly tour 21 1.20 250 BTU boiler (oil) Refinish aluminum 0636104 22 1.12 panel ceiling M & R motor 1123601 23 1.10 starter, 0-600V 09E1211 PM damper 24 1.06 controller-electrical 09E1111 PM heat/cool 25 1.01 thermostat 0626102 Replace steel deck 1.89 11 flooring Repair wood 0635102 12 1.65 (finished) ceiling Replace single-09A1C14 13 1.64 zone draw thru 6.500 CFM Pebris rmvl & 0311341 14 1.56 inspect-roll roofing 09A1C12 PM annual single-15 1.28 zone draw thru 6.500 CFM Refinish concrete 0441104 16 1.18 decking-porch Repair open head 0844111 17 1.18 sprinkler head 1122102 PM/inspect safety 18 1.15 switch, enclosed 062B201 Minor repairs to 20 1.12 finished concrete floor

| Commissary Cost by Task         |                 |                                |      |               |      |               |      |               |      |               |  |  |
|---------------------------------|-----------------|--------------------------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task Description                | CACES<br>ID No. | o. Total Bragg Wood Devens Ord |      |               |      |               |      |               |      |               |  |  |
|                                 |                 |                                | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Repair clay brick interior wall |                 |                                |      |               |      |               |      |               |      |               |  |  |

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|---|-----------------|---------------|------|---------------|----------|---------------|------|---------------|-------------|---------------|
| Task<br>Description                                   | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo       | ood           | Dev  | vens          | o           | rd            |
|   |                 |               | Rank | % of<br>Total | Rank     | % of<br>Total | Rank | % of<br>Total | Rank        | % of<br>Total |
| Total panel replacement metal roof                    | 0311367         | 4.20          | 1    | 10.04         |          |               |      |               |             |               |
| Membrane<br>removal &<br>replacement-BUR              | 0311107         | 3.83          | 9    | 2.79          | 2        | 4.20          | 4    | 4.93          |             |               |
| Refinish concrete<br>block (painted)<br>interior wall | 0612404         | 3.72          | 5    | 3.22          | 7        | 3.22          | 3    | 4.98          |             |               |
| Replace vinyl asbestos tile flooring                  | 062A202         | 3.48          | 19   | 1.64          | 3        | 3.94          | 2    | 5.51          |             |               |
| Place new membrance over existing-BUR                 | 0311106         | 3.11          | 10   | 2.48          | 4        | 3.77          | 10   | 3.37          |             |               |
| Debris removal & inspection-BUR                       | 0311101         | 3.03          | 12   | 2.29          | 6        | 3.56          | 9    | 3.77          |             |               |
| PM tour, 250 BTU boiler (gas)                         | 0981115         | 2.76          |      |               | 8        | 3.02          | 1    | 6.16          |             |               |
| Replace<br>switchgear, indoor<br>below 600B           | 1117103         | 2.58          | 11   | 2.44          | 14       | 2.16          | 11   | 3.27          |             |               |
| Replace fluorescent lighting fixture                  | 1131303         | 2.23          | 7    | 2.98          | 5        | 3.57          |      |               |             |               |
| PM battery, secondary dry                             | 1283401         | 2.04          | 25   | 1.23          | 26       | 1.32          | 8    | 3.86          |             |               |
| Flashing repairs-<br>BUR                              | 0311105         | 2.01          | 20   | 1.56          | 11       | 2.39          | 15   | 2.28          |             |               |
| Replace deaerator                                     | 0981A13         | 2.00          |      |               | 1        | 6.64          |      |               |             |               |
| Replace 6,500<br>CFM multi-zone<br>unit               | 09A1114         | 1.99          | 15   | 1.77          |          |               | 5    | 4.35          |             |               |

| Cost Dy Task                                       |                 |               |      |               |      |               |      |               |      |               |  |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task<br>Description                                | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Der  | vens          | 0    | rd            |  |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Minor membrane repairs-BUR                         | 0311103         | 1.99          | 22   | 1.52          | 13   | 2.27          | 14   | 2.40          |      |               |  |  |
| Replace 25,000<br>CFM multi-zone<br>unit           | 09A1134         | 1.74          | 2    | 4.46          |      |               |      |               |      |               |  |  |
| Replace hermetic chiller, 100 tons                 | 0991433         | 1.64          | 3    | 4.21          |      |               |      |               |      |               |  |  |
| Refinish aluminum panel ceiling                    | 0636104         | 1.34          |      |               |      |               | 7    | 3.87          |      |               |  |  |
| Replace 250W<br>HID mercury<br>vapor fixture       | 1131413         | 1.30          | 4    | 3.34          |      |               |      |               |      |               |  |  |
| PM hermetic chiller 20 tons                        | 0991412         | 1.21          |      |               |      |               | 6    | 4.04          |      |               |  |  |
| Repair hermetic chiller, 100 tons                  | 0991431         | 1.17          | 6    | 3.02          |      |               |      |               |      |               |  |  |
| Replace 2,00 BTU boiler (dual-fired)               | 0981415         | 1.13          | 8    | 2.90          |      |               |      |               |      |               |  |  |
| Replace broken pipe insulation                     | 0984142         | 1.03          |      |               |      |               | 12   | 2.48          |      |               |  |  |
| Replace<br>transformer, dry<br>below 15,000V       | 1116203         | 1.00          | 21   | 1.52          | 24   | 1.37          |      |               |      |               |  |  |
| PM weekly tour<br>2,000 BTU boiler<br>(dual-fired) | 0981414         |               | 13   | 2.20          |      |               |      |               |      |               |  |  |
| Refinish concrete exterior wall, 2nd floor         | 0415A24         |               | 14   | 1.98          |      |               |      |               |      |               |  |  |
| PM exhaust fan<br>1,000 CFM                        | 09C1122         |               | 16   | 1.74          |      |               |      |               |      |               |  |  |
| PM hermetic chiller, 100 tons                      | 0991432         |               | 17   | 1.71          |      |               |      |               |      |               |  |  |

| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Day  | ens           | n.   | rd            |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Description  | ID No.          | Total         | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % o.<br>Total |
| M & R 250W HID mercury vapor fixture                 | 1131411         |               | 18   | 1.64          |      |               |      |               |      |               |
| Repair solid core<br>(painted) wood<br>interior door | 0533212         |               | 23   | 1.48          |      |               | 20   | 1.41          |      |               |
| Replace exhaust fan 1,000 CFM                        | 09C1123         |               | 24   | 1.40          |      |               |      |               |      |               |
| M & R fluorescent lighting fixture                   | 1131301         |               | 26   | 1.23          | 21   | 1.58          |      |               |      |               |
| Replace hermetic chiller, 50 tons                    | 0991423         |               |      |               | 9    | 2.59          |      |               |      |               |
| PM hermetic chiller, 50 tons                         | 0991422         |               |      |               | 10   | 2.56          |      |               |      |               |
| Replace xfmr, liquid-filled above 600V               | 1114103         |               |      |               | 12   | 2.31          |      |               |      |               |
| Replace 6,500<br>CFM single-zone<br>draw thru        | 09A1C14         |               |      |               | 15   | 2.11          |      |               |      |               |
| PM/inspect motor starter, 0-600V                     | 1123602         |               |      |               | 16   | 2.05          |      |               |      |               |
| Replace ceramic trim-interior                        | 0561405         |               |      |               | 17   | 1.89          |      |               |      |               |
| PM feedwater supply                                  | 0981912         |               |      |               | 18   | 1.80          |      |               |      |               |
| PM annual 6,500<br>CFM single-zone<br>draw thru      | 09A1C12         |               |      |               | 19   | 1.73          |      |               |      |               |
| PM deaerator   | 0981A12         |               |      |               | 20   | 1.67          |      |               |      |               |
| Repair hermetic chiller, 50 tons                     | 0991421         |               |      |               | 22   | 1.55          |      |               |      |               |

## Art & Crafts Center Cost By Task Task CACES % of Devens Ord Description ID No. Total **Bragg** Wood % of % of % of % of Total **Total** Rank Total Rank **Total** Rank Rank Repair feedwater 0981911 23 1.40 supply pump PM/replace filter 09A1C13 25 1.33 6,500 CFM singlezone draw thru PM safety switch, 1122432 27 1.24 fused 3P 0981913 28 1.12 Replace feedwater pump 0991413 2.47 Replace hermetic 13 chiller, 20 tons 9 2.71 16 1.72 Replace 1131103 incandescent lighting fixture Replace aluminum 17 1.56 0636105 panel ceiling Replace 250 BTU 0981116 18 1.51 boiler (gas) 0991411 19 1.44 Repair hermetic chiller, 20 tons 1.98 1.17 11 M & R 1131101 21 incandescent lighting fixture PM annual 6.500 09A1112 22 1.16 CFM multi-zone unit 1.03 Replace drinking 0811H07 23 fountain PM/inspect safety 1122102 24 1.01 switch, enclosed

| Cost by 185K   |                 |               |      |               |      |               |        |               |      |               |  |  |
|--|-----------------|---------------|------|---------------|------|---------------|--------|---------------|------|---------------|--|--|
| Task<br>Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Devens |               | Ord  |               |  |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |  |  |
| Refinish wood finished (multicoat) exterior, 1st floor           | 0415F14         |               |      |               |      |               |        |               | 1    | 31.75         |  |  |
| Refinish board (finished) wall                                   | 0615704         |               |      |               |      |               |        |               | 2    | 10.76         |  |  |
| Replace wood (unfinished) ceiling                                | 0635205         |               |      |               |      |               |        | -             | 3    | 9.82          |  |  |
| Replacement of shingled roof                                     | 0311357         |               |      |               |      |               |        |               | 4    | 5.10          |  |  |
| Minor repairs-<br>shingled roof                                  | 0311353         |               |      |               |      |               |        |               | 5    | 4.60          |  |  |
| Place new over<br>existing-shingled<br>roof                      | 0311356         |               |      |               |      |               |        |               | 6    | 4.02          |  |  |
| Refinish metal window grating, 1st floor                         | 0434414         |               |      |               |      |               |        |               | 7    | 3.70          |  |  |
| Flashing repairs-<br>shingled roof                               | 0311355         |               |      |               |      |               |        |               | 8    | 3.01          |  |  |
| Replace board<br>(finished) wall                                 | 0615705         |               |      |               |      |               |        |               | 10   | 2.00          |  |  |
| Replace plywood floor  | 0625302         |               |      |               |      |               |        |               | 12   | 1.89          |  |  |
| Debris removal & inspect-shingled roof                           | 0311351         |               |      |               |      |               |        |               | 13   | 1.84          |  |  |
| Repair wood,<br>finished (multi-<br>coat) exterior, 1st<br>floor | 0415F12         |               |      |               |      |               |        |               | 14   | 1.82          |  |  |

| Task<br>Description                                     | CACES<br>ID No. | % of<br>Total | Bragg |               | . Wo | ood           | Devens |               | Ord  |               |
|---|-----------------|---------------|-------|---------------|------|---------------|--------|---------------|------|---------------|
|   |                 |               | Rank  | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |
| Repair wood<br>(unfinished)<br>ceiling                  | 0635202         |               |       |               |      |               |        |               | 15   | 1.77          |
| Replace solid core (painted) wood exterior door         | 0423215         |               |       |               |      |               |        |               | 16   | 1.73          |
| Replace wood frame (painted) operable window, 1st floor | 0431315         |               |       |               |      |               |        |               | 17   | 1.61          |
| Repair solid core<br>(painted) wood<br>exterior door    | 0423212         |               |       |               |      |               |        |               | 18   | 1.34          |

| Continuing | Education  | Facility |
|------------|------------|----------|
| Cos        | st by Task |          |

| Cost by Task                                 |                 |               |      |               |      |               |      |               |      |               |  |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|
| Task<br>Description                          | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens ens       | Ord  |               |  |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |
| Replace wood<br>(unfinished)<br>ceiling      | 0635205         | 5.57          |      |               | 18   | 1.41          |      |               | 1    | 11.39         |  |  |
| PM 1,200 CFM unit heater                     | 09A1D22         | 3.81          |      |               |      |               |      |               | 2    | 8.16          |  |  |
| Replace fluorescent lighting fixture         | 1131303         | 3.51          |      |               | 3    | 5.16          | 13   | 1.47          | 8    | 3.89          |  |  |
| Replacement of shingled roof                 | 0311357         | 2.82          |      |               |      |               | 16   | 1.28          | 3    | 5.25          |  |  |
| Replace vinyl asbestos tile flooring         | 062A202         | 2.76          |      |               | 2    | 5.31          | 4    | 4.88          |      |               |  |  |
| Minor repairs-<br>shingled roof              | 0311353         | 2.60          |      |               |      |               | 14   | 1.40          | 4    | 4.70          |  |  |
| Place new over existing-shingled roof        | 0311356         | 2.28          |      |               |      |               | 17   | 1.27          | 6    | 4.10          |  |  |
| Total panel replacement-metal roof           | 0311367         | 2.27          |      |               | 1    | 9.00          |      |               |      |               |  |  |
| Replace 1 H.P. air compressor                | 0831113         | 2.09          |      |               |      | ļ<br>L        |      |               | 5    | 4.38          |  |  |
| PM weekly tour,<br>250 BTU boiler<br>(oil)   | 0981314         | 1.98          |      |               |      |               | 1    | 6.81          |      |               |  |  |
| PM weekly tour,<br>2,000 BTU boiler<br>(oil) | 0981324         | 1.98          |      |               |      |               | 2    | 6.81          |      |               |  |  |
| Replace 2,000<br>BTU boiler (oil)            | 0981326         | 1.97          |      |               |      |               | 3    | 6.79          |      |               |  |  |

| Continuing Education Facility Cost by Task           |                 |               |      |               |      |               |        |               |      |               |  |
|--|-----------------|---------------|------|---------------|------|---------------|--------|---------------|------|---------------|--|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Devens |               | Ord  |               |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank   | % of<br>Total | Rank | % of<br>Total |  |
| Replace solid core (painted) wood exterior door      | 0423215         | 1.83          |      |               |      |               |        |               | 7    | 3.98          |  |
| Flashing repairs shingled roof                       | 0311355         | 1.68          |      |               |      |               |        |               | 11   | 3.08          |  |
| PM heat/cool<br>thermostat                           | 09E1111         | 1.68          |      |               | 15   | 1.84          |        |               | 14   | 2.23          |  |
| M&R fluorescent lighting fixture                     | 1131301         | 1.58          |      |               | 11   | 2.29          |        |               | 19   | 1.77          |  |
| Replace 1,200<br>CFM unit heater                     | 09A1D23         | 1.57          |      |               |      |               |        |               | 9    | 3.36          |  |
| Repair solid core<br>(painted) wood<br>exterior door | 0423212         | 1.42          |      |               |      |               |        |               | 10   | 3.09          |  |
| Replace baseboard radiator, 10' section              | 0981G01         | 1.37          |      |               |      |               | 5      | 4.73          |      |               |  |
| Refinish sheetrock (unstippled) wall                 | 0611304         | 1.23          |      |               | 20   | 1.13          | 6      | 3.25          |      |               |  |
| Refinish sheetrock (stippled) wall                   | 0611204         | 1.22          |      |               |      |               |        |               | 12   | 2.66          |  |
| Replace unfinished concrete floor                    | 062B102         | 1.15          |      |               |      |               |        |               | 13   | 2.45          |  |
| Repair wood<br>(unfinished)<br>ceiling               | 0535202         | 1.08          |      |               |      |               |        |               | 16   | 2.14          |  |
| Debris removal & inspect shingled roof               | 0311351         | 1.04          |      |               |      |               |        |               | 17   | 1.88          |  |
| PM/inspect motor starter, 0-600V                     | 1123602         | 1.01          |      |               |      |               |        |               | 18   | 1.80          |  |

|  |                 | C             | Continuin<br>C | g Educat<br>ost by Ta |      | ity           |      |               |      |               |
|--|-----------------|---------------|----------------|-----------------------|------|---------------|------|---------------|------|---------------|
| Task Description   | CACES<br>ID No. | % of<br>Total | Br             | agg                   | Wo   | ood           | Dev  | ens           | Ord  |               |
|  |                 |               | Rank           | % of<br>Total         | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace xfmr<br>liquid-filled below<br>600V              | 1116103         | 1.01          |                |                       |      |               |      |               | 15   | 2.20          |
| Membrane<br>removal &<br>replacement-BUR                 | 0311107         |               |                |                       | 4    | 3.49          |      |               |      |               |
| Replace 6,500<br>CFM single-zone<br>draw thru            | 09A1C14         |               |                |                       | 5    | 3.18          |      |               |      |               |
| Place new<br>membrane over<br>existing-BUR               | 0311106         |               |                |                       | 6    | 3.13          |      |               |      |               |
| Debris removal & inspection-BUR                          | 0311101         |               |                |                       | 7    | 2.80          |      |               |      |               |
| Refinish concrete<br>block (painted)<br>interior wall    | 0612404         |               |                |                       | 8    | 2.71          |      |               |      |               |
| PM annual 6,500<br>CFM single-zone<br>draw thru          | 09A1C12         |               |                |                       | 9    | 2.41          |      |               |      |               |
| Replace 10,000<br>BTU boiler (oil)                       | 0981336         |               |                |                       | 10   | 2.36          |      |               |      |               |
| Flashing repairs-<br>BUR                                 | 0311105         |               |                |                       | 12   | 1.99          |      |               |      |               |
| Minor membrane repairs-BUR                               | 0311103         |               |                |                       | 13   | 1.89          |      |               |      |               |
| PM/replace filter<br>6,500 CFM single-<br>zone draw thru | 09A1C13         |               |                |                       | 14   | 1.84          |      |               |      |               |
| PM safety switch, fused 1P                               | 1122412         |               |                |                       | 16   | 1.70          |      |               |      |               |

## **Continuing Education Facility** Cost by Task Task CACES % of Description ID No. Total Bragg Wood Devens Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total Replace switchgear 1117103 17 1.45 20 1.14 indoor below 600V 0981415 Replace 2,000 19 1.21 BTU boiler (dualfired) Repair solid core 0533212 21 1.03 (painted) wood interior door Replace formica 0614105 7 2.33 wall Replace broken 0984142 8 2.16 pipe insulation Refinish wood 0431324 9 1.79 frame (painted) operable window, 2nd floor Replace 250 BTU 0981316 10 1.59 boiler (oil) Refinish aluminum 0434624 11 1.51 frame screen, 2nd floor Refinish aluminum 0434124 12 1.50 frame storm windows, 2nd

floor

(oil)

Refinish sheetrock

(unstippled) ceiling

PM/clean brnr

2,000 BTU boiler

PM annual 2,000

BTU boiler (oil)

0631304

0981325

0981322

# Continuing Education Facility Cost by Task

| Task<br>Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | od            | Dev  | ens           | O    | rd            |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish wood trimming-interior                                | 0561104         |               |      |               |      |               | 21   | 1.14          |      |               |
| Replace carpet   | 0629102         |               |      |               |      |               | 22   | 1.00          |      |               |
| Replace brass exterior lockset                                 | 0472105         |               |      |               |      |               |      |               | 20   | 1.70          |
| Replace pipe or gutter   | 0822102         |               |      |               |      |               |      |               | 21   | 1.62          |
| Replace wood<br>frame (painted)<br>fixed window, 1st<br>floor  | 0432315         |               |      |               |      |               |      |               | 22   | 1.61          |
| Refinish solid core (painted) wood exterior door               | 0423214         |               |      |               |      |               |      |               | 23   | 1.57          |
| Replace wainscot wall  | 0615905         |               |      |               |      |               |      |               | 24   | 1.36          |
| Refinish wainsot wall  | 0615904         |               |      |               |      |               |      |               | 25   | 1.22          |
| Replace 1 HP air compressor                                    | 0831112         |               |      |               |      |               |      |               | 26   | 1.21          |
| Minor repairs to unfinished concrete floor                     | 062B101         |               |      |               |      |               |      |               | 27   | 1.21          |
| Replace hollow core (painted) wood interior door               | 0533112         |               |      |               |      |               |      |               | 28   | 1.20          |
| PM/inspect safety switch, enclosed                             | 1122102         |               |      |               |      |               |      |               | 29   | 1.09          |
| Refinish wood<br>frame (painted)<br>fixed window, 1st<br>floor | 0432314         |               |      |               |      |               |      |               | 30   | 1.06          |

|   |                 |               |      | al Fitness<br>ost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|-------------------------|------|---------------|------|---------------|------|---------------|
| Task Description                                      | CACES<br>ID No. | % of<br>Total | Bra  | agg                     | Wo   | ood           | Dev  | ens           | o    | rd            |
|   |                 |               | Rank | % of<br>Total           | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace steel deck flooring                           | 0626102         | 16.51         | 1    | 35.48                   |      |               |      |               |      |               |
| Membrane<br>removal &<br>replacement-BUR              | 0311107         | 2.83          | 3    | 2.64                    | 2    | 4.14          | 9    | 1.74          | 5    | 2.76          |
| Place new<br>membrane over<br>existing-BUR            | 0311106         | 2.47          | 4    | 2.35                    | 3    | 3.72          | 12   | 1.19          | 6    | 2.46          |
| Replace ceramic tile interior wall                    | 0612805         | 2.39          | 2    | 2.83                    | 5    | 3.12          |      |               | 11   | 1.75          |
| Debris removal & inspection-BUR                       | 0311101         | 2.30          | 5    | 2.17                    | 4    | 3.34          | 11   | 1.35          | 7    | 2.28          |
| Refinish concrete<br>block (painted)<br>interior wall | 0612404         | 2.19          | 10   | 1.23                    | 1    | 6.08          | 13   | 1.18          | 20   | 1.21          |
| Refinish aluminum panel ceiling                       | 0636104         | 1.78          | 9    | 1.42                    | 6    | 2.95          | 3    | 3.35          |      |               |
| Flashing repairs-<br>BUR                              | 0311105         | 1.57          | 7    | 1.48                    | 8    | 2.36          |      |               | 13   | 1.55          |
| Total roof replacement-roll roofing                   | 0311347         | 1.57          |      |                         |      |               | 2    | 3.45          | 1    | 5.64          |
| Minor membrane repairs-BUR                            | 0311103         | 1.52          | 8    | 1.44                    | 10   | 2.24          |      |               | 16   | 1.50          |
| Replace shower, terrazo                               | 0811906         | 1.08          |      |                         |      |               |      |               | 2    | 4.67          |
| Minor roofing repair-roli roofing                     | 0311343         | 1.03          |      |                         |      |               | 7    | 2.36          | 3    | 3.63          |
| Total panel replacement-metal roof                    | 0311367         | 1.02          |      |                         |      |               | 1    | 6.89          |      |               |
| Replace rubber tile flooring                          | 062A302         |               | 6    | 1.54                    |      |               |      |               |      |               |

|   |                 |               |      | al Fitness<br>ost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|-------------------------|------|---------------|------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg                     | Wo   | ood           | Dev  | vens          | o    | rd            |
|   |                 |               | Rank | % of<br>Total           | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Minor repairs to steel floor                            | 0626101         |               | 11   | 1.11                    |      |               |      |               |      |               |
| Replace<br>switchgear, indoor<br>below 600V             | 1117103         |               | 12   | 1.08                    | 22   | 1.05          |      |               |      |               |
| Replace exhaust fan 25,000 CFM                          | 09C1143         |               | 13   | 1.03                    |      |               |      |               |      |               |
| Replace maple floor                                     | 0625203         |               |      |                         | 7    | 2.37          |      |               |      |               |
| Replace 10,000<br>CFN1 single-zone<br>draw thru         | 09A1C24         |               |      |                         | 9    | 2.33          |      |               |      |               |
| Typlace 25,000<br>CFM single-zone<br>draw thru          | 09A1C34         |               |      |                         | 11   | 1.88          |      |               |      |               |
| PM battery, secondary wet                               | 1283301         |               |      |                         | 12   | 1.53          |      |               |      |               |
| Replace broken pipe insulation                          | 0984142         |               |      |                         | 13   | 1.41          | 6    | 2.99          |      |               |
| Replace carpet  | 0629102         |               |      |                         | 14   | 1.36          | 8    | 2.05          |      |               |
| Replace aluminum panel ceiling                          | 0636105         |               |      |                         | 15   | 1.26          | 10   | 1.35          |      |               |
| PM annual 10,000<br>CFM single-zone<br>draw thru        | 09A1C22         |               |      |                         | 16   | 1.26          |      |               |      |               |
| Sand & refinish maple floor                             | 0625202         |               |      |                         | 17   | 1.25          |      |               |      |               |
| Replace<br>fluorescent lighting<br>fixture              | 1131303         |               |      |                         | 18   | 1.23          | 14   | 1.18          |      |               |
| Refinish steel<br>(painted) exterior<br>wall, 2nd floor | 04151.24        |               |      |                         | 19   | 1.19          |      |               |      |               |

|   |                 |               |      | al Fitness<br>ost by Ta |      |               |      |               |      |               |
|---|-----------------|---------------|------|-------------------------|------|---------------|------|---------------|------|---------------|
| Task Description  | CACES<br>ID No. | % of<br>Total | Bra  | agg                     | Wo   | ood           | Dev  | ens           | O    | rd            |
|   |                 |               | Rank | % of<br>Total           | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM/replace filter<br>10,000 CFM<br>single-zone draw<br>thru         | 09A1C23         |               |      |                         | 20   | 1.14          |      |               |      |               |
| Replace 2,000<br>BTU boiler (dual-fired)                            | 0981415         |               |      |                         | 21   | 1.10          |      |               |      |               |
| Replace wood (finished) ceiling                                     | 0635105         |               |      |                         | 23   | 1.05          |      |               | 4    | 2.82          |
| PM battery,<br>primary wet  | 1283101         |               |      |                         |      |               | 4    | 3.15          |      |               |
| Total roof replace-<br>rigid fiberglass<br>roof                     | 0311377         |               |      |                         |      |               | 5    | 3.06          |      |               |
| Refinish wood<br>finish (multi-ccat)<br>exterior wall, 1st<br>floor | 0415F14         |               |      |                         |      |               |      |               | 8    | 2.15          |
| Refinish steel<br>louvers with<br>frame, 1st floor                  | 0433314         |               |      |                         |      |               |      |               | 9    | 1.87          |
| Repair steel<br>louvers with<br>frame, 1st floor                    | 0433312         |               |      |                         |      |               |      |               | 10   | 1.86          |
| Refinish wood<br>frame (painted)<br>fixed window, 2nd<br>floor      | 0432324         |               |      |                         |      |               |      |               | 12   | 1.55          |
| Refinish wood (finished) ceiling                                    | 0635104         |               |      |                         |      |               |      |               | 14   | 1.53          |
| Replace ceramic tile floor  | 0622102         |               |      |                         |      |               |      |               | 15   | 1.53          |
| Replace 2,000<br>BTU boiler (gas)                                   | 0981127         |               |      |                         |      |               |      |               | 17   | 1.43          |

| Physical Fitness Center Cost by Task                                     |                 |               |      |               |      |               |      |               |      |               |  |  |  |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|--|--|--|
| Task Description   | CACES<br>ID No. | % of<br>Total | Br   | agg           | Wo   | ood           | Dev  | ens ens       | o    | rd            |  |  |  |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |  |  |  |
| Replace 6,500<br>CFM multi-zone<br>unit                                  | 09A1114         |               |      |               |      |               |      |               | 18   | 1.32          |  |  |  |
| PM weekly tour<br>2,000 BTU boiler<br>(gas)                              | 0981126         |               |      |               |      |               |      |               | 19   | 1.30          |  |  |  |
| Replacement of shingled roof   | 0311357         |               |      |               |      |               |      |               | 21   | 1.19          |  |  |  |
| Refinish concrete<br>block (WP/P)<br>painted exterior<br>wall, 1st floor | 0415914         |               |      |               |      |               |      |               | 22   | 1.08          |  |  |  |
| Replace exhaust fan 10,000 CFM   | 09C1133         |               |      |               |      |               |      |               | 23   | 1.04          |  |  |  |
| Replace wood<br>finish (multi-coat)<br>exterior wall, 1st<br>floor       | 0415F15         |               |      |               |      |               |      |               | 24   | î.04          |  |  |  |

### **Transient Housing Facilities** Cost by Task % of Task CACES Ord Description ID No. Total **Bragg** Wood Devens % of % of % of % of Total Total Rank Total Rank Total Rank Rank 0629102 8.49 12.58 3.17 4.35 1 11.15 1 Replace carpet 1283301 7.13 1 19.16 1 7.95 PM battery, secondary wet 0631304 4.45 2 7.09 13 1.63 10 2.53 Refinish sheetrock (unstippled) ceiling 7 3.23 Refinish sheetrock 0611304 2.60 1.81 3 2 5.15 (unstippled) wall 2.23 7 2.73 0533112 1.75 5 15 1.66 Replace hollow core (painted) wood interior door 3 3.33 Replace xfmr, 1114103 1.69 liquid-filled, above 600V 2.86 3 Replace vinyl 062A202 1.59 5 4.36 asbestos tile flooring 0981A13 1.37 6 2.77 Replace deaerator 0612805 1.20 6 2.21 Replace ceramic tile interior wall 2.36 Replace 400 CFM 09A1924 1.19 4 fan coil unit Replace wall 0981H01 1.18 2 3.61 radiator, finned, 10' section Replacement of 0311357 1.16 8 1.88 17 1.21 7 2.88 shingled roof PM heat/cool 09E1111 1.14 8 1.80 12 2.13 thermostat 0533212 1.07 12 1.66 12 1.92 10 2.27 Repair solid core (painted) wood

interior door

# Transient Housing Facilities Cost by Task

| <u> </u>  | 1                |               |      | ost by It     |      |               |      |               | [    | <del></del>   |
|---|------------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task Description                                    | CACES<br>ID No.  | % of<br>Total | Bri  | ioo           | Wo   | od            | Dev  | ens           | 0    | rd            |
|   |                  |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace hot water<br>heater, electric,<br>120-gal   | 0814H03          |               | 9    | 1.70          |      |               |      |               |      |               |
| Membrane<br>removal and<br>replacement -<br>BUR     | 0311107          |               | 10   | 1.64          |      |               |      |               |      |               |
| Replace 2,000<br>BTU boiler (dual-<br>fired)        | 0981415          |               | 11   | 1.62          |      |               |      |               |      |               |
| Place new<br>membrane over<br>existing - BUR        | 0311106          |               | 12   | 1.45          |      |               |      |               |      |               |
| PM/replace filters,<br>400 CFM fan coil<br>unit     | 09A1923          |               | 13   | 1.38          |      |               |      |               |      |               |
| Debris removal<br>and inspection -<br>BUR           | 0311101          |               | 14   | 1.34          |      |               |      |               |      |               |
| Replace<br>switchgear, indoor,<br>below 600V        | 1117103          |               | 15   | 1.24          |      |               |      |               |      |               |
| PM weekly tour,<br>2,000 BTU boiler<br>(dual-fired) | 0981414          |               | 16   | 1.23          |      |               |      |               |      |               |
| Replace sheetrock (unstippled) ceiling              | 0631302          |               | 17   | 1.14          |      |               |      |               |      |               |
| PM/clean coil, 400<br>CFM fan coil unit             | 091A1922         |               | 18   | 1.14          |      |               |      |               |      |               |
| Replace bathtub, plastic                            | 0811 <b>J</b> 07 |               | 19   | 1.05          |      |               |      |               |      |               |
| Replace hollow core (painted) wood interior door    | 0533115          |               | 20   | 1.00          |      |               |      |               |      |               |

|   |                 |               |      | t Housing     | g Facilitie<br>ask | es            |      |               |      |               |
|---|-----------------|---------------|------|---------------|--------------------|---------------|------|---------------|------|---------------|
| Task<br>Description                           | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo                 | ood           | Dev  | vens          | o    | rd            |
|   |                 |               | Rank | % of<br>Total | Rank               | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| PM weekly tour,<br>250 BTU boiler<br>(oil)    | 0981314         |               |      |               | 7                  | 2.74          |      |               |      |               |
| PM 1-ton window<br>A/C                        | 0991212         |               |      |               | 9                  | 1.77          |      |               |      |               |
| Replace broken pipe insulation                | 0984142         |               |      |               | 10                 | 1.72          | 9    | 2.57          |      |               |
| Replace 1-ton<br>window A/C                   | 0991213         |               |      |               | 11                 | 1.69          |      |               |      |               |
| Minor repairs -<br>shingled roof              | 0311353         |               |      |               | 14                 | 1.52          | 16   | 1.33          | 8    | 2.55          |
| Refinish aluminum siding, 1st floor           | 0415114         |               |      |               | 15                 | 1.42          |      |               |      |               |
| Replace battery, secondary wet                | 1283302         |               |      |               | 16                 | 1.38          |      |               |      |               |
| Place new over<br>existing - shingled<br>roof | 0311356         |               |      |               | 17                 | 1.23          | 18   | 1.21          | 11   | 2.23          |
| Refinish aluminum siding, 2nd floor           | 0415124         |               |      |               | 18                 | 1.13          |      |               |      |               |
| Replace<br>switchgear, indoor,<br>0-600V      | 1115103         |               |      |               | 19                 | 1.06          |      |               |      |               |
| Flashing repairs -<br>shingled roof           | 0311355         |               |      |               | 20                 | 1.03          |      |               | 14   | 1.67          |
| Replace 2,000<br>BTU boiler (gas)             | 0981127         |               |      |               |                    |               | 5    | 3.91          |      |               |
| PM weekly tour<br>2,000 BTU boiler<br>(gas)   | 0981126         |               |      |               |                    |               | 6    | 3.80          |      |               |

|  |                 | ſ             | Fransient<br>Co | Housing       |      | es            |      |               |      |               |
|--|-----------------|---------------|-----------------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                      | CACES<br>ID No. | % of<br>Total | Bra             | agg           | Wo   | ood           | Dev  | vens          | o    | rd            |
|  |                 |               | Rank            | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Refinish wood frame (painted) operable window, 2nd floor | 0431324         |               |                 |               |      |               | 8    | 2.60          |      |               |
| Replace radiator, cast iron, 10' section                 | 0981F01         |               |                 |               |      |               | 11   | 2.19          |      |               |
| PM weekly tour<br>250 BTU boiler<br>(gas)                | 0981115         | •             |                 |               |      |               | 13   | 1.90          |      |               |
| Refinish wood<br>trim - interior                         | 0561104         |               |                 |               |      |               | 14   | 1.82          |      |               |
| PM battery,<br>secondary dry                             | 1283401         |               |                 |               |      |               | 15   | 1.59          |      |               |
| Refinish solid core (painted) wood interior door         | 0533214         |               |                 |               |      |               | 19   | 1.21          | 23   | 1.16          |
| Refinish wood finished (multicoat) exterior, 1st floor   | 0415F14         |               |                 |               |      |               |      |               | 2    | 7.68          |
| PM 100 KBTU<br>house furnace<br>(gas)                    | 0981C23         |               |                 |               |      |               |      |               | 3    | 6.22          |
| Replace 100<br>KBTU house<br>furnace (gas)               | 0981C23         |               |                 |               |      |               |      |               | 4    | 4.56          |
| Clean/service hot water heater, gas/oil, 30-gal          | 0814D02         |               |                 |               |      |               |      |               | 5    | 4.46          |
| Refinish sheetrock (stippled) wall                       | 0611204         |               |                 |               |      |               |      |               | 6    | 3.32          |

# Transient Housing Facilities Cost by Task CACES % of Task Description ID No. Total Bragg Wood **Devens** Ord % of % of % of % of Rank Total Rank Total Rank Total Rank Total 9 2.49 Repair 100 KBTU 0981C21 house furnace (gas) 0434614 13 1.86 Refinish aluminum frame screen, 1st floor 16 1.63 0431315 Replace wood frame (painted) operable window, 1st floor 1.55 062A102 17 Replace linoleum floor 1.43 Replace pipe and 0912103 18 fittings, steel/iron (gas) 0615704 19 1.35 Refinish board (finished) interior wall 20 1.33 Replace solid core 0533215 (painted) wood interior door 0814D03 21 1.28 Replace hot water heater, gas/oil, 30-22 1.18 Replace pipe and 0823103 fittings, waste and vent Debris removal 0311351 24 1.02 and inspection shingled roof Refinish wood 0441204 25 1.01 decking - porch

# Consolidated Open Dining Facility Cost By Task

| Task Description                                      | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | 0    | rd            |
|---|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
|   |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace carpet  | 0629102         | 8.61          | 1    | 11.24         | 2    | 7.84          | ·    |               |      |               |
| PM battery, secondary wet                             | 1283301         | 7.12          |      |               | 1    | 19.56         |      |               |      |               |
| Membrane<br>removal &<br>replacement-BUR              | 0311107         | 2.65          | 10   | 1.68          | 4    | 2.54          |      |               | 1    | 7.01          |
| Place new<br>membrane over<br>existing-BUR            | 0311106         | 2.21          | 12   | 1.50          | 5    | 2.28          |      |               | 3    | 4.96          |
| Debris removal & inspection-BUR                       | 0311101         | 2.12          | 14   | 1.38          | 6    | 2.03          |      |               | 2    | 5.47          |
| Replace<br>fluorescent lighting<br>fixture            | 1131303         | 1.82          | 3    | 2.44          |      |               |      |               | 12   | 2.77          |
| Replace<br>switchgear, indoor<br>below 600V           | 1117103         | 1.66          | 4    | 2.22          | 13   | 1.44          |      |               |      |               |
| Flashing repairs-<br>BUR                              | 0311105         | 1.45          |      |               | 12   | 1.44          |      |               | 7    | 3.58          |
| Minor membrane repairs-BUR                            | 0311103         | 1.40          |      |               | 15   | 1.37          |      |               | 8    | 3.52          |
| Replace vinyl<br>asbestos tile<br>flooring            | 062A202         | 1.40          | 11   | 1.63          | 8    | 1.95          |      |               | 11   | 2.83          |
| Replace ceramic tile interior wall                    | 0612805         | 1.32          | 8    | 2.02          |      |               |      |               |      |               |
| Refinish stucco<br>exterior wall, 1st<br>floor        | 0415C14         | 1.28          | 2    | 2.51          |      |               |      |               |      |               |
| Repair hollow core<br>(painted) wood<br>interior door | 0533112         | 1.22          | 9    | 1.87          |      |               |      |               |      |               |

## Consolidated Open Dining Facility Cost By Task CACES % of Task Description Bragg ID No. Total Wood **Devens** Ord % of % of % of % of Rank Total Rank **Total** Rank **Total** Rank Total 0981314 5 2.20 PM weekly tour, 1.13 250 BTU boiler (oil) 0991452 6 2.14 1.10 PM chiller-air cool recip, 10-ton 9 3.12 20 1.04 Refinish concrete 0612404 1.08 block (painted) interior wall 1.45 4 4.31 0981A13 1.06 11 Replace deaerator 0415C24 1.03 7 2.02 Refinish stucco exterior wall, 2nd floor 09A1C14 13 1.42 Replace 6,500 CFM single zone draw thru 0611404 15 1.21 Refinish stucco interior wall 0991453 16 1.17 Replace chiller-air cool recip. 10-ton 1.13 Replace 10,000 0981137 17 BTU boiler (gas) PM heat/cool 09E1111 18 1.13 thermostat 0814H03 19 1.10 Replace hot water heater, electric, 120-gal 22 1.26 21 1.01 M&R fluorescent 1131301 lighting fixture 3 2.63 Replace vinyl 0614405 interior wall 1.98 0991433 7 Replace hermetic

chiller, 100 tons

## Consolidated Open Dining Facility Cost By Task **CACES** % of **Task Description** Bragg ID No. **Total** Wood **Devens** Ord % of % of % of % of Total Total Rank **Total** Rank **Total** Rank Rank 9 Repair hermetic 0991431 1.70 chiller, 100 tons 1.45 Replace 6,500 09A1114 10 CFM multi-zone unit 1283302 14 1.41 Replace battery, secondary, wet 0981326 1.37 Replace 2,000 16 BTU boiler (oil) PM weekly tour, 0981324 17 1.32 2.000 BTU boiler (oil) 1.23 1123602 18 1.31 23 PM/inspect motor starter, 0-600V 0991432 19 PM hermetic 1.12 chiller, 100 tons 0813702 5 4.12 Replace C.W. expansion chamber 3.91 Replace 1117203 6 switchgear, indoor above 600V 0622202 10 3.00 Replace quarry tile floor 0981415 2.45 Replace 2,000 13 BTU biler (dualfired) 0625103 2.31 Replace wood 14 parquetry floor 09C1143 15 2.31 Replace exhaust fan 25,000 CFM PM weekly tour 0981414 16 2.09 2,000 BTU boiler

(dual-fired)

## Consolidated Open Dining Facility Cost By Task Task Description **CACES** % of Total Devens Ord ID No. **Bragg** Wood % of % of $% \frac{1}{2} = \frac{1}{2}$ % of Total Total Total Rank Rank Total Rank Rank 17 2.02 0441104 Refinish concrete decking-porch 19 1.55 0433112 Repair wood louvers in frame, 1st floor 09C1142 20 1.51 PM exhaust fan 25,000 CFM 21 1.35 0433114 Refinish wood louvers in frame, 1st floor 24 PM deaerator 0981A12 1.16 25 1.15 Refinish painted 0415914 concrete block exterior wall, 1st floor 26 1.12 0814I03 Replace hot water heater, electric, 300-gal 27 1.08 Replace xfmr 1116103 liquid-filled below 600V 28 1.03 Repair concrete 0441102 decking-porch 29 1.02 Replace 1131103 incandescent

1.01

30

lighting fixture

Replace exhaust fan 50,000 CFM

09C1153

|  |                 |               |      | inity Ret     |      |               |      |               |      |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                  | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | O    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace carpet                                       | 0629102         | 8.55          | 1    | 5.88          | 5    | 2.81          | 1    | 6.38          | 1    | 18.45         |
| Replace<br>fluorescent lighting<br>fixture           | 1131303         | 4.12          | 2    | 3.35          | 2    | 4.41          | 3    | 3.74          | 3    | 4.65          |
| Replace vinyl<br>asbestos tile<br>flooring           | 062A202         | 3.58          | 3    | 2.84          | 3    | 3.80          | 2    | 5.47          | 7    | 3.38          |
| Replace<br>switchgear, indoor<br>Lelow 600V          | 1117103         | 2.56          | 5    | 2.57          | 13   | 1.56          | 12   | 1.67          | 5    | 3.90          |
| Total panel<br>replacement -<br>metal roof           | 0311367         | 2.43          |      |               | 1    | 4.50          |      |               | 4    | 4.16          |
| Membrane<br>removal and<br>replacement -<br>BUR      | 0311107         | 2.04          | 6    | 2.41          | Ó    | 2.54          | 4    | 3.14          |      |               |
| PM 20 tons<br>chillers ACH<br>recip.                 | 0991412         | 1.97          | 4    | 2.64          | 4    | 3.14          | 18   | 1.46          |      |               |
| Refinish wood<br>(multi-coat)<br>exterior, 1st floor | 0415F14         | 1.95          | 18   | 1.17          |      |               |      |               | 2    | 5.58          |
| M&R fluorescent lighting fixture                     | 1131301         | 1.82          | 13   | 1.39          | 9    | 1.96          | 11   | 1.68          | 12   | 2.12          |
| Debris removal<br>and inspection -<br>BUR            | 0311101         | 1.60          | 8    | 1.97          | 8    | 2.04          | 5    | 2.30          |      |               |
| Place new<br>membrane over<br>existing - BUR         | 0311106         | 1.57          | 7    | 2.10          | 7    | 2.26          | 6    | 2.14          |      |               |
| Replacement of shingled roof                         | 0311357         | 1.42          | 17   | 1.18          |      |               | 19   | 1.45          | 9    | 2.87          |

# Community Retail Store Cost by Task

|   | <del></del>     |               |      | ost by Xt |      |               |      | <del></del>   |      | <del></del>   |
|---|-----------------|---------------|------|-----------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                             | CACES<br>ID No. | % of<br>Total | Bra  | agg       | Wo   | ood           | Dev  | vens          | О    | rd            |
|   |                 |               | Rank | o of      | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Minor repair shingled roof                      | 0311353         | 1.30          |      |           |      |               | 13   | 1.59          | 10   | 2.59          |
| Replace 20-ton chiller ACH recip.               | 0991413         | 1.29          | 9    | 1.90      | 10   | 1.93          |      |               |      |               |
| Place new over<br>existing - shingled<br>roof   | ∂311356         | 1.12          |      |           |      |               | 22   | 1.44          | 11   | 2.26          |
| Refinish sheetrock (stippled) wall              | 0611204         | 1.12          |      |           |      |               |      |               | 6    | 3.51          |
| Flashing repairs -<br>BUR                       | 0311105         | 1.08          | 15   | 1.35      | 15   | 1.44          | 21   | 1.44          |      |               |
| Minor membrane repairs - BUR                    | 0311103         | 1.05          | 16   | 1.31      | 16   | 1.37          | 15   | 1.51          |      |               |
| PM 20 tons<br>chillers WCH<br>recip.            | 0991512         |               | 10   | 1.60      |      |               |      |               |      |               |
| PM battery,<br>secondary dry                    | 1283401         |               | 11   | 1.54      |      |               | 8    | 1.86          |      |               |
| Replace 6,500<br>CFM multi-zone<br>unit         | 09A1114         |               | 12   | 1.51      |      |               | 28   | 1.04          |      |               |
| Repair hollow core (painted) wood interior door | 0533112         |               | 14   | 1.38      |      |               |      |               |      |               |
| Replace 10,000<br>BTU boiler (gas)              | 0981137         |               | 19   | 1.09      |      |               |      |               |      |               |
| Replace single-<br>zone draw-thru<br>10,000 CFM | 09A1C^ 1        |               | 20   | 1.08      |      |               |      |               |      |               |
| Repair hermetic<br>chiller 20-ton<br>ACH recip. | 0991411         |               | 21   | 1.06      | 18   | 1.09          |      |               |      |               |

# Community Retail Store Cost by Task

|  | a. 678          | T ~ ^      | ſ    | ost by 12     |      |               |      |               | 1    |               |
|--|-----------------|------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                              | CACES<br>ID No. | % of Total | Bra  | agg           | Wo   | ood           | Dev  | ens           | 0    | rd            |
|  |                 |            | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace chiller 20 tons WCH recip.               | 0991513         |            | 22   | 1.01          |      |               |      |               |      |               |
| Refinish sheetrock (unstippled) wall             | 0611304         |            |      |               | 11   | 1.65          | 10   | 1.77          |      |               |
| Repair heat pump 10 tons                         | 09A1E21         |            |      |               | 12   | 1.63          |      |               |      |               |
| PM chiller-air cool recip., 5-ton                | 0991442         |            |      |               | 14   | 1.46          |      |               |      |               |
| PM heat pump, 10 tons                            | 09A1E22         |            |      |               | 17   | 1.18          |      |               |      |               |
| PM/inspect safety switch, enclosed               | 1122102         |            |      |               | 19   | 1.01          |      |               |      |               |
| PM battery,<br>primary dry                       | 1283201         |            |      |               |      |               | 7    | 2.07          |      |               |
| Replace metal<br>walk-in cooler<br>interior door | 0534325         |            |      |               |      |               | 9    | 1.80          |      |               |
| Replace 2,000<br>BTU boiler (gas)                | 0981127         |            |      |               |      |               | 14   | 1.52          |      |               |
| PM weekly tour,<br>250 BTU boiler<br>(gas)       | 0981115         |            |      |               |      |               | 16   | 1.48          |      |               |
| PM weekly tour,<br>2.000 BTU boiler<br>(gas)     | 0981126         |            |      |               |      |               | 17   | 1.48          |      |               |
| Refinish sheetrock (unstippled) ceiling          | 0631304         |            |      |               |      |               | 20   | 1.44          |      |               |
| Replace quarry tile floor                        | 0622202         |            |      |               |      |               | 23   | 1.26          |      |               |
| Replace steel deck flooring                      | 0626102         |            |      |               |      |               | 24   | 1.25          |      |               |

|  |                 |               |      | nity Reta     |      |               |      |               |      |               |
|--|-----------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| Task<br>Description                                      | CACES<br>ID No. | % of<br>Total | Bra  | agg           | Wo   | ood           | Dev  | ens ens       | O    | rd            |
|  |                 |               | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total | Rank | % of<br>Total |
| Replace ceramic tile wall                                | 0612805         |               |      |               |      |               | 25   | 1.14          | 18   | 1.02          |
| Replace broken pipe insulation                           | 0984142         |               |      |               |      |               | 26   | 1.14          |      |               |
| Refinish painted concrete block exterior wall, 1st floor | 0415914         |               | -    |               |      |               | 27   | 1.08          |      |               |
| Refinish sheetrock (stippled) ceiling                    | 0631204         |               |      |               |      |               |      |               | 8    | 2.88          |
| Flashing repairs -<br>shingled roof                      | 0311355         |               |      |               |      |               |      |               | 13   | 1.70          |
| PM/inspect motor starter, 0-600V                         | 1123602         |               |      |               |      |               |      |               | 14   | 1.63          |
| Replace pipe or gutter                                   | 0822102         |               |      |               |      |               |      |               | 15   | 1.22          |
| Replace vinyl interior wall                              | 0614405         |               |      |               |      |               |      |               | 16   | 1.09          |
| Debris removal<br>and inspection -<br>shingled roof      | 0311351         |               |      |               |      |               |      |               | 17   | 1.04          |
| Repair solid core<br>(painted) wood<br>interior door     | 0533212         |               |      |               |      |               |      |               | 19   | 1.01          |

# APPENDIX P:

# STATISTICAL ANALYSIS DATA

# ANNEX C

# MRPM AVERAGE COST FACTORS ESTIMATED LIFE CYCLE COST

- 1. This armex provides average maintenance cost factors, per square foot of building, for major functional use classifications, over an assumed 80 year life cycle. These cost are statistically derived from an MRPM analysis of representative buildings evaluated at four CONUS installations, Forts Bragg, Devens, Leonard Wood and Ord. Since Army Materiel Command and Health Services Command Installations were not included in the field evaluation of the MRPM, these costs are not applicable to specialized facilities at installations of those commands.
- 2. Cost factors are arrayed from 1 to 80 years in three columns for each type of construction permanent or temporary. The columns show the average (weighted mean) cost, the standard deviation for the distribution of costs that produced the average, and the value of the 90% confidence limits associated with the average cost.
- 3. Functional use classifications are the facility category group classifications, based on current use, developed during the Long Range Stationing Study. Three separate pages are shown for each facility category group; Annual Required Maintenance (ARM), Major Component Replacement (MCR), and Total Maintenance which is the sum of ARM plus MCR.
- 4. These average cost factors are in Washington base dollars. To determine the cost at a particular installation they should be adjusted by the area cost factors, listed in PAX Newsletter 20, to account for variances in regional price indices.

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|                  | Annual Required Maintenance |                                      |                          |              |                      |                          | 171 |
|------------------|-----------------------------|--------------------------------------|--------------------------|--------------|----------------------|--------------------------|-----|
| Yr               |                             | uildings<br>SDev                     |                          | Teap         | Buildings<br>SDev    | 901<br>+/-               |     |
| 1 2              | 0.10                        | 0.08<br>0.25                         | 0.01                     | 0.19<br>0.40 | 0.12<br>0.25         | 0.03<br>0.05             |     |
| 2<br>3<br>4      | 0.48<br>0.55                | 0.26                                 | 0.05                     | 0.62         | 0.26                 | 0.06                     |     |
| <b>Š</b>         | 0.55                        | 0.26                                 | 0.05                     | 0.76         | 0.30                 | 0.06                     |     |
| 5<br>6<br>7      | 0.60                        | 0.25<br>0.27                         | 0.04                     | 0.83<br>0.85 | 0.28<br>0.27         | 0.06                     |     |
| 8<br>9           | 0.59<br>0.68                | 0.29<br>0.27<br>0.29                 | 0.05<br>0.05             | 0.93<br>1.03 | 0.38<br>0.45         | 0.08<br>0.10             |     |
| 10<br>11         | 0.66<br>0.69                | 0.28                                 | 0.05<br>0.05             | 1.00         | 0.40<br>0.44         | 0.09<br>0.10             |     |
| 11<br>12<br>13   | 0.69<br>0.67                | 0.26<br>0.31                         | 0.05<br>0.05             | 1.04         | 0.53<br>0.45         | 0.12<br>0.10             |     |
| 14<br>15         | 0.77<br>0.74                | 0.52                                 | 0.09<br>0.05             | 0.88<br>0.97 | 0.35<br>0.36         | 0.08<br>0.08             |     |
| 16<br>17         | 0.80<br>0.73                | 0.29                                 | 0.05                     | 1.00         | 0.32<br>0.34         | 0.07                     |     |
| 18               | 0.79                        | 0.48                                 | 0.09                     | 0.86         | 0.32                 | 0.07                     |     |
| 19<br>20         | 0.78<br>0.78                | 0.21                                 | 0.04                     | 1.04         | 0.55<br>0.54         | 0.12<br>0.12             |     |
| 21<br>22         | 0.78<br>0.74                | 0.20<br>0.25                         | 0.04                     | 1.13         | 0.48<br>0.40         | 0.10<br>0.09             |     |
| 23               | 0.64<br>0.75                | 0.28                                 | 0.05                     | 0.93<br>0.95 | 0.34<br>0.38         | 0.07<br>0.0 <b>8</b>     |     |
| 24<br>25<br>26   | 0.77<br>0.81                | 0.35<br>0.28<br>0.51                 | 0.05<br>0.09             | 0.95         | 0.39<br>0.45         | 0.08                     |     |
| 27<br>28         | 0.66                        | 0.26<br>0.35                         | 0.05                     | 0.88         | 0.35<br>0.34         | 0.08                     |     |
| 29               | 0.90                        | 0.62                                 | 0.11                     | 1.00         | 0.44                 | 0.10                     |     |
| 30<br>31         | 0.68                        | 0.27<br>0.32                         | 0.05                     | 1.01         | 0.47<br>0.38         | 0.10<br>0.0 <b>8</b>     |     |
| 32<br>33         | 0.65<br>0.63                | 0.27<br>0.31<br>0.50                 | 0.05<br>0.05             | 0.99<br>1.01 | 0.45<br>0.54         | 0.10<br>0.12             |     |
| 34<br>35         | 0.77<br><b>0.66</b>         | 0.26                                 | 0.0 <del>9</del><br>0.05 | 0.89<br>0.85 | 0.41<br>0.33         | 0.09<br>0.07             |     |
| 36<br>37         | 0.70                        | 0.25<br>0.25                         | 0.04                     | 0.87<br>0.97 | 0.30<br>0.38         | 0.06                     |     |
| 38<br>39         | 0.45                        | 0.28<br>0.21                         | 0.05<br>0.04             | 0.92         | 0.40<br>0.40         | 0.09                     |     |
| 40<br>41         | 0.70<br>0.76                | 0.23<br>0.24                         | 0.04                     | 0.98         | 0.49<br>0.52         | 0.11                     |     |
| 42               | 0.71                        | 0.21                                 | 0.04                     | 1.04         | 0.46                 | 0.10                     |     |
| 43<br>44         | 0.71                        | 0.28<br>0.26                         | 0.05<br>0.05             | 0.91         | 0.35<br>0.30         | 0.08<br>0.07             |     |
| 45<br>46         | 0. <b>83</b><br>0.72        | 0.47<br>0.34                         | 0.08                     | 0.91<br>0.97 | 0.38                 | 0.08<br>0.08             |     |
| 47<br>48         | 0.64<br>0.67                | 0.27<br>0.30                         | 0.05<br>0.05             | 0.88<br>0.90 | 0.35<br>0.33         | 0.08<br>0.07             |     |
| 49<br>50         | 0.94<br>0.72                | 0.58<br>0.28                         | 0.10<br>0.05             | 1.01         | 0.45<br>0.45         | 0.10<br>0.10             |     |
| 51<br>52         | 0.92<br>0.72                | 0.54                                 | 0.10                     | 1.22         | 0.54<br>0.48         | 0.12                     |     |
| 53<br>54         | 0.64                        | 0.25<br>0.31<br>0.27                 | 0.06                     | 0.93         | 0.45<br>0.38         | 0.10                     |     |
| 55               | 0.76<br>0.73                | 0.35                                 | 0.04                     | 0.96         | 0.39<br>0.31         | 0.09                     |     |
| 56<br>57         | 0.76                        | 0.35<br>0.27<br>0.27                 | 0.05                     | 0.97         | 0.34<br>0.38         | 0.07                     |     |
| 58<br>59         | 0.68<br>0.82                | 0.26<br>0.50                         | 0.05<br>0.0 <del>9</del> | 0.96<br>1.05 | 0.45                 | 0.08                     |     |
| 91<br>90         | 0.68                        | 0.26<br>0.34<br>0.24                 | 0.05                     | 1.02         | 0.49<br>0.47         | 0.11                     |     |
| 62<br>63         | 0.66<br>0.76                | 0.51                                 | 0.04                     | 1.03         | 0.42<br>0.35         | 0.0 <del>9</del><br>0.08 |     |
| 64<br>65         | 0.69                        | 0.24<br>0.27<br>0.29<br>0.30<br>0.29 | 0.04                     | 0.91<br>0.89 | 0.28<br>0.26         | 0.06<br>0.06             |     |
| 66<br>67         | 0.65                        | 0.29                                 | 0.05                     | 0.97<br>0.93 | ስ ፕዬ                 | 0.08                     |     |
| 68<br>69         | 0.63                        | 0.29                                 | 0.05                     | 0.83         | 0.37<br>0.31<br>0.41 | 0.07                     |     |
| 70<br>71         | 0.65                        | 0.28<br>0.25<br>0.31                 | 0.04                     | 1.02         | 0.51<br>0.55         | 0.11                     |     |
| 72<br>73         | 0.68                        | 0.27                                 | 0.05                     | 1.01         | 0.46                 | 0.10                     |     |
| 74               | 0.67<br>0.75                | 0.51                                 | 0.09                     | 0.90         | 0.38                 | 0.08                     |     |
| 75<br>76         | 0.74<br>0.79                | 0.33<br>0.28                         | 0.06                     | 0.87<br>0.92 | 0.38<br>0.26         | 0.08                     |     |
| 77<br>7 <b>8</b> | 0. <b>68</b>                | 0.24<br>0.26<br>0.44                 | 0.04                     | 0.88         | 0.30<br>0.31         | 0.06                     |     |
| 79<br>80         | 0. <b>86</b><br>0.76        | 0.44<br>0.33                         | 0.0 <b>6</b>             | 1.01<br>0.99 | 0.46<br>0.48         | 0.10<br>0.10             |     |
|                  |                             |                                      |                          |              |                      |                          |     |

| Yr   |   | Compone<br>Buildings<br>SDev   | nt Repla<br>90Z<br>+/-  | cement<br>Temp<br>Hean   | Buildings<br>SDev   | 901<br>+/-   |
|--|---|--|---|--|---|--|
| 123456789011234567890122222222222333333333333334412345678901234567890123345678901233456789012345678901 | Perm 8 0.00 0.001 | Wisconstance  Wisconstance  0.1619  0.000  0.001  0 | 907-<br>0.000<br>0.001<br>0.001<br>0.001<br>0.001<br>0.002<br>0.003<br>0.002<br>0.003<br>0.003<br>0.003<br>0.004<br>0.003<br>0.004<br>0.003<br>0.004<br>0.003<br>0.004<br>0.004<br>0.004<br>0.004<br>0.004<br>0.004<br>0.004<br>0.004<br>0.005<br>0.004<br>0.005<br>0.004<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0.005<br>0 | Nean 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.05 0.07 0.05 0.05 0.05 0.05 0.05 0.05                              | \$\\ \text{50} \\ \text{000} \\ | +/- 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.  |
| 49<br>555555555555555555555555555555555555   | 0.46<br>0.37<br>0.64  | 0.16<br>0.27<br>0.25<br>0.23<br>0.19<br>0.25<br>0.43<br>0.55<br>0.96<br>1.20<br>1.10<br>0.31<br>0.42<br>0.31<br>0.32<br>0.32   | 0.03<br>0.04<br>0.05  | 0.36<br>0.57<br>0.52<br>0.52<br>0.52<br>0.75<br>0.88<br>0.76<br>0.83<br>0.58<br>0.58<br>0.58<br>0.58<br>0.64 | 0.29<br>0.46<br>0.42  | 0.06<br>0.10<br>0.06<br>0.12<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.10<br>0.05<br>0.06<br>0.07<br>0.08<br>0.08 |
| 72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80   | 0.65<br>0.57<br>0.62<br>1.04<br>0.50<br>0.59<br>0.66  | 0.21<br>0.22<br>0.39<br>1.49<br>0.44<br>0.18<br>0.21   | 0.04<br>0.04<br>0.07<br>0.27<br>0.08<br>0.03<br>0.04<br>0.05  | 1.20<br>1.16<br>0.99<br>1.39<br>1.07<br>1.13<br>1.00   | 1.02<br>0.48<br>0.46<br>0.84<br>0.75<br>0.62<br>0.43  | 0.13<br>0.22<br>0.15<br>0.14<br>0.19<br>0.16<br>0.13<br>0.09<br>0.12   |

| 1  | Yr        |              | Mainten<br>uildings<br>S <b>B</b> ev |              | Teap<br>Nean | Duildings<br>SDev | 90Z<br>+/-   |
|--|-----------|--------------|--------------------------------------|--------------|--------------|-------------------|--------------|
| 3  |           |              |                                      | 0.01         |              | 0.25              | 0.03<br>0.05 |
| 5 0.57 0.29 0.05 0.76 0.30 0.07 6 0.60 0.25 0.04 0.89 0.28 0.06 7 0.61 0.28 0.05 0.86 0.28 0.06 8 0.73 0.23 0.04 0.93 0.39 0.08 9 0.90 0.21 0.04 1.08 0.46 0.10 10 0.89 0.21 0.04 1.07 0.43 0.09 11 1.07 0.29 0.05 1.34 0.59 0.13 12 1.05 0.22 0.04 1.23 0.61 0.13 13 0.94 0.43 0.08 1.18 0.55 0.12 14 1.03 0.71 0.13 1.24 0.42 0.09 15 1.13 0.58 0.10 1.32 0.47 0.10 16 1.24 0.84 0.11 1.42 0.34 0.07 17 0.99 0.36 0.06 1.28 0.43 0.09 18 1.22 0.58 0.10 1.20 0.47 0.10 19 1.28 0.45 0.08 1.51 0.74 0.02 20 1.14 0.33 0.06 1.91 1.02 0.22 21 1.20 0.42 0.07 2.11 1.03 0.22 21 1.20 0.42 0.07 2.11 1.03 0.22 22 1.22 0.51 0.09 1.62 0.59 0.13 24 0.96 0.42 0.07 1.44 0.59 0.13 25 1.11 0.42 0.07 1.43 0.59 0.13 26 1.23 0.74 0.13 1.55 0.75 0.16 27 1.04 0.40 0.07 1.43 0.77 0.17 28 2.58 0.92 0.16 1.55 0.75 0.16 27 1.04 0.40 0.07 1.43 0.77 0.17 28 2.58 0.92 0.16 1.55 0.75 0.16 27 1.04 0.40 0.07 1.43 0.77 0.17 28 2.58 0.92 0.16 1.55 0.75 0.16 31 3.70 2.46 0.44 3.05 4.94 1.07 32 2.65 0.96 0.15 1.60 0.91 0.20 31 3.70 0.74 0.15 1.60 0.91 0.20 32 1.60 0.97 0.42 0.07 1.43 0.77 0.15 33 1.70 0.74 0.15 1.65 0.75 0.16 34 1.41 1.24 0.22 1.51 0.56 0.19 35 1.07 0.54 0.16 1.55 0.86 0.19 36 0.97 0.46 0.08 1.65 0.73 0.16 37 0.94 0.42 0.07 1.71 0.69 0.13 38 1.14 0.57 0.15 1.71 0.85 0.18 39 1.19 0.31 0.05 1.76 0.62 0.13 31 3.70 0.74 0.10 1.70 0.85 0.18 31 3.70 0.74 0.10 1.70 0.80 0.19 31 3.70 0.74 0.10 1.70 0.80 0.19 31 3.70 0.74 0.10 1.70 0.80 0.19 32 2.65 0.86 0.15 1.71 0.85 0.18 33 1.19 0.31 0.05 1.76 0.62 0.13 34 1.41 1.24 0.27 0.57 0.10 1.40 0.47 0.10 44 1.10 0.34 0.06 1.29 0.05 1.71 0.85 0.18 35 1.07 0.54 0.10 1.70 0.85 0.18 36 0.97 0.46 0.09 1.65 0.79 0.17 38 1.14 0.57 0.10 1.70 0.56 0.12 39 1.19 0.31 0.55 0.75 0.10 1.70 0.56 0.12 37 0.94 0.40 0.07 1.71 0.69 0.15 38 1.14 0.57 0.10 1.40 0.47 0.95 0.15 39 1.19 0.31 0.55 0.90 1.70 0.86 0.19 30 0.45 0.10 1.40 0.40 0.77 0.71 0.15 31 1.72 0.50 0.86 0.15 1.70 0.80 0.19 31 1.72 0.55 0.75 0.10 1.70 0.80 0.19 31 1.73 0.74 0.75 0.75 0.75 0.75 0.75 0.16 31 0.75 0.77 0.77 0.77 0.77 0.77 0.77 0.77                          | 3         | 0.48         | 0.26                                 | 0.05         |              | 0.26              | 0.06         |
| 7 0.61 0.28 0.05 0.86 0.28 0.06 0.73 0.07 0.08 0.73 0.09 0.21 0.04 0.93 0.39 0.08 0.09 0.90 0.21 0.04 1.08 0.46 0.10 10 0.89 0.21 0.04 1.08 0.46 0.10 11 1.07 0.29 0.05 1.34 0.59 0.13 12 1.05 0.22 0.04 1.23 0.61 0.13 13 0.94 0.43 0.08 1.18 0.53 0.12 14 1.03 0.71 0.13 1.24 0.42 0.09 1.5 1.13 0.58 0.10 1.32 0.47 0.10 15 1.13 0.58 0.10 1.32 0.47 0.10 16 1.24 0.44 0.11 1.42 0.34 0.07 17 0.99 0.36 0.06 1.28 0.45 0.09 18 1.22 0.58 0.10 1.40 0.42 0.09 18 1.22 0.58 0.10 1.40 0.42 0.14 19 1.28 0.45 0.08 1.51 0.94 0.20 1.14 0.33 0.06 1.91 1.02 0.22 1.12 0.51 0.09 1.62 0.59 0.13 0.22 1.22 0.51 0.09 1.62 0.59 0.13 0.22 1.22 0.51 0.09 1.62 0.59 0.13 0.22 1.22 0.51 0.09 1.62 0.59 0.13 0.22 1.24 0.40 0.40 0.07 1.44 0.59 0.13 25 1.11 0.42 0.07 1.51 0.84 0.18 25 1.11 0.42 0.07 1.51 0.84 0.18 25 1.11 0.42 0.07 1.53 0.77 0.17 28 2.58 0.92 0.16 1.55 0.75 0.16 1.52 0.75 0.16 1.52 0.75 0.16 1.55 0.86 0.19 3.29 0.93 0.16 1.60 0.91 0.20 3.29 0.13 3.70 2.46 0.44 3.05 4.94 1.07 3.2 2.58 0.92 0.16 1.55 0.86 0.19 3.2 3.29 0.93 0.16 1.65 0.86 0.19 3.2 3.29 0.93 0.16 1.67 0.86 0.19 3.2 3.29 0.93 0.16 1.67 0.86 0.19 3.2 3.29 0.93 0.16 1.67 0.86 0.19 3.2 3.29 0.93 0.16 1.67 0.86 0.19 3.2 3.29 0.93 0.16 1.65 0.86 0.19 3.2 3.29 0.93 0.16 1.65 0.86 0.19 3.2 3.29 0.93 0.16 1.65 0.86 0.19 3.2 3.29 0.93 0.16 1.65 0.86 0.19 3.2 3.29 0.93 0.16 1.65 0.86 0.19 3.2 3.20 0.24 0.27 0.15 1.71 0.85 0.18 3.3 3.70 2.46 0.08 1.65 0.43 3.00 4.94 1.07 3.2 4.64 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.13 1.75 0.86 0.19 3.2 4.44 0.73 0.15 1.76 0.86 0.19 3.2 4.44 0.73 0.15 1.76 0.86 0.19 3.2 4.44 0.73 0.15 1.76 0.86 0.19 3.2 4.44 0.73 0.15 1.76 0.86 0.19 3.2 4.44 0.73 0.15 1.76 0.86 0.19 3.2 4.44 0. | 5         | 0.57         | 0.29                                 | 0.05         | 0.76         | 0.30              | 0.07         |
| 8 0.73 0.23 0.04 0.93 0.39 0.09 9 0.90 0.21 0.04 1.08 0.46 0.10 10 0.89 0.21 0.04 1.08 0.46 0.10 11 1.07 0.29 0.05 1.34 0.59 0.13 13 0.94 0.43 0.08 1.18 0.55 0.12 14 1.03 0.71 0.13 1.24 0.42 0.09 15 1.13 0.58 0.10 1.32 0.47 0.10 16 1.24 0.64 0.11 1.42 0.34 0.07 17 0.99 0.36 0.06 1.28 0.43 0.09 18 1.22 0.58 0.10 1.40 0.62 0.14 19 1.28 0.45 0.08 1.51 0.94 0.20 20 1.14 0.33 0.06 1.91 1.02 0.22 21 1.20 0.45 0.08 1.51 0.94 0.20 21 1.10 0.04 0.07 0.13 1.02 0.57 22 1.22 0.51 0.09 1.62 0.59 0.13 24 0.96 0.42 0.07 1.44 0.59 0.13 25 1.11 0.42 0.07 1.51 0.84 0.18 26 1.23 0.74 0.13 1.55 0.75 0.16 27 1.04 0.40 0.07 1.51 0.84 0.18 26 1.23 0.74 0.13 1.55 0.75 0.16 27 1.04 0.40 0.07 1.43 0.77 0.17 28 2.58 0.92 0.16 1.55 0.86 0.19 3.70 2.46 0.44 3.05 0.91 0.29 3.29 0.93 0.16 1.50 0.86 0.19 33 2.44 0.73 0.15 1.71 0.85 0.18 33 2.44 0.73 0.15 1.71 0.85 0.18 33 2.44 0.73 0.13 1.72 0.60 0.13 34 1.41 1.24 0.22 1.51 0.56 0.12 35 1.07 0.54 0.15 1.71 0.85 0.18 35 1.07 0.54 0.15 1.76 0.86 0.19 37 0.94 0.42 0.07 1.71 0.85 0.18 38 1.14 0.57 0.16 1.69 0.73 0.16 38 1.19 0.27 0.16 1.65 0.43 0.91 40 1.40 0.50 0.99 1.65 0.43 0.99 0.15 36 0.97 0.46 0.08 1.65 0.47 0.15 38 1.19 0.31 0.55 0.18 39 1.19 0.33 0.05 0.09 1.62 0.50 0.11 41 1.33 0.47 0.08 2.19 0.86 0.19 38 1.14 0.57 0.10 1.76 0.56 0.12 39 1.19 0.31 0.57 0.10 1.70 0.56 0.12 31 1.70 0.54 0.15 1.71 0.85 0.18 31 1.71 0.53 0.47 0.08 1.71 0.89 0.73 31 1.72 0.46 0.48 0.09 1.73 0.16 35 1.17 0.58 0.49 0.15 1.76 0.86 0.19 37 0.94 0.42 0.07 1.71 0.69 0.75 38 1.14 0.57 0.10 1.70 0.90 0.73 0.16 40 1.40 0.50 0.99 1.85 0.19 0.99 0.25 50 1.88 0.99 0.35 0.06 1.35 0.86 0.19 51 1.19 0.27 0.05 1.62 0.50 0.71 0.15 50 1.08 0.40 0.09 1.71 0.55 0.29 50 1.71 0.73 0.16 50 1.71 0.75 0.77 0.17 0.77 0.17 50 1.08 0.49 0.45 0.11 1.39 0.66 0.19 51 1.56 0.48 0.99 0.95 1.71 0.98 0.21 51 1.56 0.48 0.99 0.95 1.71 0.98 0.21 51 1.56 0.48 0.99 0.95 1.71 0.98 0.21 51 1.56 0.48 0.99 0.95 1.71 0.98 0.21 51 1.56 0.48 0.99 0.95 1.71 0.99 0.20 51 1.72 0.77 0.77 0.19 1.99 0.95 51 1.78 0.79 0.90 0.90 0.90 0.90 0.90 0.90 0.90           | 6         | 0.61         |                                      |              |              | 0.28              | 0.06         |
| 10   | 8         | 0.73         | 0.23                                 | 0.04         | 0.93         | 0.39<br>0.46      | 0.08         |
| 12   | 10        | 0.89         | 0.21                                 | 0.04         | 1.07         | 0.43              | 0.09         |
| 14   | 12        | 1.05         | 0.22                                 | 0.04         | 1.23         | 0.61              | 0.13         |
| 15   |           | 1.03         | 0.43<br>0.71                         | 0.13         | 1.18         | 0.55<br>0.42      | 0.09         |
| 17 0.99 0.36 0.06 1.28 0.43 0.09 18 1.22 0.58 0.10 1.40 0.62 0.14 19 1.28 0.45 0.08 1.51 0.94 0.20 20 1.14 0.33 0.06 1.91 1.02 0.22 21 1.20 0.42 0.07 2.11 1.03 0.22 22 1.22 0.51 0.09 1.62 0.59 0.13 23 0.88 0.50 0.09 1.62 0.67 0.15 24 0.96 0.42 0.07 1.51 0.84 0.18 25 1.11 0.42 0.07 1.51 0.84 0.18 26 1.23 0.74 0.13 1.55 0.75 0.16 27 1.04 0.40 0.07 1.51 0.86 0.19 28 2.58 0.92 0.16 1.55 0.86 0.19 29 3.29 0.93 0.16 1.67 0.86 0.19 20 2.68 0.92 0.16 1.55 0.86 0.19 31 3.70 2.46 0.44 3.05 4.94 1.07 32 2.65 0.86 0.15 1.71 0.85 0.18 33 2.44 0.73 0.13 1.72 0.60 0.13 34 1.41 1.24 0.22 1.51 0.56 0.12 35 1.07 0.54 0.10 1.69 0.73 0.16 36 0.97 0.46 0.08 1.65 0.43 0.09 37 0.94 0.42 0.07 1.71 0.69 0.73 38 1.14 0.57 0.10 1.69 0.73 0.16 39 1.19 0.31 0.05 1.76 0.62 0.13 39 1.19 0.31 0.05 1.76 0.62 0.13 40 1.40 0.50 0.09 1.85 0.71 0.85 41 1.33 0.47 0.08 2.19 0.86 0.19 42 1.19 0.27 0.05 1.62 0.50 0.11 43 1.21 0.57 0.10 1.30 0.77 0.16 44 1.01 0.36 0.09 1.55 0.71 0.15 41 1.33 0.47 0.08 1.29 0.86 0.19 44 1.19 0.27 0.05 1.50 0.60 0.11 45 1.18 0.63 0.11 1.39 0.66 0.14 46 0.97 0.39 0.07 1.55 0.86 0.15 55 1.28 0.29 0.35 0.06 1.55 0.99 0.21 55 1.78 0.79 0.45 0.09 1.55 0.99 0.21 56 1.49 0.45 0.10 1.59 0.99 0.21 57 1.78 0.73 0.16 1.80 0.99 0.21 58 3.16 0.87 0.19 1.79 0.86 0.19 59 2.96 0.49 0.15 1.79 0.80 0.19 50 1.08 0.40 0.07 1.55 0.86 0.19 51 1.56 0.48 0.09 1.55 0.99 0.21 55 1.28 0.29 0.05 1.71 0.98 0.99 0.21 56 1.49 0.45 0.12 1.57 0.50 0.80 0.19 56 1.40 0.40 0.07 1.55 0.99 0.21 57 1.78 0.77 0.14 1.47 0.53 0.99 0.21 58 3.16 0.87 0.15 1.78 0.98 0.21 57 1.78 0.77 0.14 1.99 0.85 0.99 0.21 57 1.78 0.77 0.14 1.47 0.53 0.99 0.21 57 1.78 0.77 0.14 1.99 0.85 0.99 0.21 57 1.78 0.77 0.14 1.99 0.85 0.99 0.21 57 1.79 0.87 0.99 0.95 1.71 0.99 0.21 57 1.79 0.87 0.99 0.95 1.71 0.99 0.21 57 1.79 0.87 0.99 0.90 0.15 1.99 0.90 0.21 57 1.79 0.87 0.99 0.90 0.15 1.99 0.90 0.21 57 1.18 0.42 0.47 0.19 1.99 0.90 0.21 57 1.29 0.40 0.40 0.40 0.70 1.57 0.50 0.99 0.21 57 1.80 0.40 0.40 0.40 0.70 1.57 0.90 0.90 0.20   |           | 1.13         |                                      |              | 1.32         | 0.47<br>0.34      | 0.07         |
| 19   | 17        | 0.99         | 0.36                                 | 0.06         | 1.28         | 0.43              | 0.09         |
| 22   | 19        | 1.28         | 0.45                                 | 0.08         | 1.51         | 0.94              | 0.20         |
| 22   | 20<br>21  | 1.20         | 0.42                                 | 0.07         | 2.11         | 1.03              | 0.22         |
| 24   | 27<br>23  | 1.22         | 0.51<br>0.50                         |              | 1.62         | 0.67              | 0.13         |
| 26   | 24        | 0.96         | 0.42                                 | 0.07         | 1.44         | 0.59              | 0.13         |
| 28   | 26        | 1.23         | 0.74                                 | 0.13         | 1.55         | 0.75              | 0.16         |
| 30         2.68         0.92         0.16         1.80         0.91         0.20           31         3.70         2.46         0.44         3.05         4.94         1.07           32         2.65         0.86         0.15         1.71         0.85         0.18           33         2.44         0.73         0.13         1.72         0.60         0.13           34         1.41         1.24         0.22         1.51         0.56         0.12           35         1.07         0.54         0.10         1.69         0.73         0.16           36         0.97         0.46         0.08         1.65         0.43         0.09           37         0.94         0.42         0.07         1.71         0.69         0.15           38         1.14         0.57         0.10         1.76         0.62         0.13           40         1.40         0.57         0.10         1.76         0.62         0.13           40         1.40         0.50         0.09         1.65         0.71         0.15           41         1.33         0.47         0.08         2.19         0.86         0.19  | 27<br>28  | 1.04<br>2.58 | 0.40<br>0.92                         | 0.16         | 1.55         | 0.86              | 0.19         |
| 31   | 29<br>30  | 3.29<br>2.48 | 0.93<br>0.92                         | 0.16         | 1.67         |                   | 0.19         |
| 33   | 31        | 3.70         | 2.46                                 | 0.44         | 3.05         | 4.94              | 1.07         |
| 35   | 33        | 2.44         | 0.73                                 | 0.13         | 1.72         | 0.40              | 0.13         |
| 36   | <b>35</b> |              | 0.54                                 | 0.10         | 1.51         | 0.73              | 0.16         |
| 38         1.14         0.57         0.10         1.76         0.56         0.12           39         1.19         0.31         0.05         1.76         0.62         0.13           40         1.40         0.50         0.09         1.65         0.71         0.15           41         1.33         0.47         0.08         2.19         0.86         0.19           42         1.19         0.27         0.05         1.62         0.50         0.11           43         1.21         0.57         0.10         1.40         0.47         0.10           44         1.01         0.36         0.04         1.23         0.37         0.08           45         1.18         0.43         0.01         1.39         0.66         0.14           46         0.97         0.39         0.07         1.56         0.62         0.14           47         0.86         0.34         0.06         1.20         0.63         0.14           48         0.99         0.35         0.04         1.37         0.71         0.15           50         1.08         0.40         0.07         1.55         0.86         0.19  | 36        |              | 0.46                                 | 0.08         | 1.65         | 0.69              | 0.15         |
| 40   | 38        | 1.14         | 0.57                                 | 0.10         | 1.70         | J.56              | 0.12         |
| 42 1.19 0.27 0.05 1.62 0.50 0.11 43 1.21 0.57 0.10 1.40 0.47 0.10 44 1.01 0.36 0.06 1.23 0.37 0.08 45 1.18 0.43 0.11 1.39 0.66 0.14 46 0.97 0.39 0.07 1.56 0.62 0.14 47 0.86 0.34 0.06 1.20 0.63 0.14 48 0.99 0.35 0.06 1.35 0.68 0.15 49 1.39 0.45 0.12 1.37 0.71 0.15 50 1.08 0.40 0.07 1.55 0.86 0.19 51 1.56 0.48 0.09 1.94 0.87 0.19 52 1.37 0.34 0.06 1.52 0.79 0.17 53 1.32 0.43 0.08 1.74 0.95 0.21 54 1.22 0.30 0.05 1.71 0.98 0.21 55 1.28 0.29 0.05 1.71 0.98 0.21 56 1.49 0.45 0.12 1.93 0.99 0.21 57 1.78 0.73 0.13 1.85 0.92 0.20 58 3.16 0.87 0.15 1.78 0.98 0.21 59 2.96 0.89 0.16 1.81 0.94 0.20 60 3.20 1.01 0.18 1.85 0.88 0.19 61 4.04 2.43 0.47 3.13 5.15 1.12 62 2.66 1.07 0.19 1.98 0.85 0.18 63 2.79 0.87 0.16 1.57 0.63 0.14 64 1.32 0.41 0.07 1.57 0.52 0.11 65 1.54 0.77 0.14 1.47 0.53 0.14 66 1.16 0.29 0.05 1.38 0.56 0.12 67 1.51 0.52 0.79 0.27 70 1.52 0.34 0.06 1.72 0.57 71 1.51 0.61 0.18 1.85 0.80 0.19 67 1.27 0.27 0.05 1.38 0.56 0.12 68 1.40 0.40 0.07 1.57 0.52 0.11 68 1.40 0.40 0.07 1.51 0.55 0.12 69 1.43 0.24 0.04 1.72 0.67 0.14 70 1.52 0.34 0.06 1.86 0.80 0.17 71 1.51 0.51 0.51 0.51 0.28 77 1.52 0.34 0.06 1.86 0.80 0.17 78 1.35 0.62 0.19 1.98 0.21 77 1.18 0.62 0.11 1.95 1.01 0.28 77 1.18 0.62 0.11 1.95 1.01 0.22 77 1.18 0.62 0.11 1.95 1.01 0.22 77 1.18 0.62 0.11 1.95 1.01 0.22 77 1.18 0.62 0.11 1.95 1.01 0.22  | 40        | 1.40         | 0.50                                 | 0.09         | 1.65         | 0.71              | 0.15         |
| 44         1.01         0.36         0.06         1.23         0.37         0.08           45         1.18         0.43         0.11         1.39         0.66         0.14           46         0.97         0.39         0.07         1.56         0.62         0.14           47         0.86         0.34         0.06         1.20         0.63         0.14           48         0.99         0.35         0.06         1.20         0.63         0.14           48         0.99         0.35         0.06         1.20         0.63         0.15           49         1.39         0.45         0.12         1.37         0.71         0.15           50         1.08         0.40         0.07         1.55         0.86         0.19           51         1.56         0.48         0.09         1.94         0.87         0.19           51         1.32         0.43         0.08         1.74         0.95         0.21           53         1.32         0.43         0.08         1.74         0.95         0.21           54         1.22         0.30         0.05         1.42         0.73         0.16  | 42        | 1.19         | 0.27                                 | 0.05         | 1.62         | 0.50              | 0.11         |
| 45   |           | 1.21         | 0.36                                 | 0.10         | 1.23         | 0.47<br>0.37      | 0.08         |
| 47   |           | 1.18         | 0.43                                 | 0.11         | 1.39         | 0.66              | 0.14         |
| 49         1.39         0.45         0.12         1.37         0.71         0.15           50         1.08         0.40         0.07         1.55         0.86         0.19           51         1.56         0.48         0.09         1.94         0.87         0.19           52         1.37         0.34         0.06         1.52         0.79         0.17           53         1.32         0.43         0.08         1.74         0.95         0.21           54         1.22         0.30         0.05         1.42         0.73         0.16           55         1.28         0.29         0.05         1.71         0.98         0.21           56         1.49         0.45         0.12         1.93         0.99         0.21           57         1.78         0.73         0.13         1.85         0.98         0.21           57         1.78         0.79         0.15         1.78         0.98         0.21           57         2.96         0.87         0.15         1.78         0.98         0.21           57         2.96         0.87         0.15         1.78         0.98         0.21  | 47        | 0.86         | 0.34                                 | 0.06         | 1.20         | 0.63              | 0.14         |
| 51         1.56         0.48         0.09         1.94         0.87         0.19           52         1.37         0.34         0.06         1.52         0.79         0.17           53         1.32         0.43         0.08         1.74         0.95         0.21           54         1.22         0.30         0.05         1.71         0.98         0.21           55         1.28         0.29         0.05         1.71         0.98         0.21           56         1.49         0.45         0.12         1.93         0.99         0.21           57         1.78         0.73         0.13         1.85         0.92         0.20           58         3.16         0.87         0.15         1.78         0.98         0.21           59         2.96         0.89         0.16         1.81         0.94         0.20           60         3.20         1.01         0.18         1.85         0.88         0.19           61         4.04         2.63         0.47         3.13         5.15         1.12           62         2.66         1.07         0.19         1.98         0.85         0.18  | 49        | 1.39         | 0.45                                 | 0.12         | 1.37         | 0.71              | 0.15         |
| 55         1.28         0.27         0.05         1.71         0.78         0.21           56         1.49         0.45         0.12         1.93         0.99         0.21           57         1.78         0.87         0.13         1.85         0.92         0.20           58         3.16         0.87         0.15         1.78         0.98         0.21           59         2.96         0.89         0.16         1.81         0.94         0.20           60         3.20         1.01         0.18         1.85         0.88         0.19           61         4.04         2.63         0.47         3.13         5.15         1.12           62         2.66         1.07         0.19         1.98         0.85         0.18           63         2.79         0.87         0.16         1.57         0.63         0.14           64         1.32         0.41         0.07         1.57         0.52         0.11           65         1.54         0.77         0.14         1.47         0.53         0.14           65         1.54         0.77         0.14         1.47         0.53         0.11  |           | 1.56         |                                      |              | 1.55         | 0.86<br>0.87      | 0.19         |
| 55         1.28         0.27         0.05         1.71         0.78         0.21           56         1.49         0.45         0.12         1.93         0.99         0.21           57         1.78         0.87         0.13         1.85         0.92         0.20           58         3.16         0.87         0.15         1.78         0.98         0.21           59         2.96         0.89         0.16         1.81         0.94         0.20           60         3.20         1.01         0.18         1.85         0.88         0.19           61         4.04         2.63         0.47         3.13         5.15         1.12           62         2.66         1.07         0.19         1.98         0.85         0.18           63         2.79         0.87         0.16         1.57         0.63         0.14           64         1.32         0.41         0.07         1.57         0.52         0.11           65         1.54         0.77         0.14         1.47         0.53         0.14           65         1.54         0.77         0.14         1.47         0.53         0.11  |           | 1.37         |                                      | 0.06         | 1.52         | 0.79              | 0.17         |
| 56         1.49         0.45         0.12         1.93         0.99         0.21           57         1.78         0.73         0.13         1.85         0.92         0.20           58         3.16         0.87         0.15         1.78         0.98         0.21           59         2.96         0.89         0.16         1.81         0.94         0.20           60         3.20         1.01         0.18         1.85         0.89         0.19           61         4.04         2.63         0.47         3.13         5.15         1.12           62         2.66         1.07         0.19         1.98         0.85         0.18           63         2.79         0.87         0.16         1.57         0.63         0.14           63         2.79         0.87         0.16         1.57         0.63         0.14           64         1.32         0.41         0.07         1.57         0.53         0.14           64         1.32         0.47         0.14         1.47         0.53         0.11           65         1.54         0.77         0.14         1.47         0.53         0.11  | 54        | 1.22         | 0.30                                 | 0.05         | 1.42         | 0.73              | 0.16         |
| 58         3.16         0.87         0.15         1.78         0.98         0.21           59         2.96         0.87         0.16         1.81         0.94         0.20           60         3.20         1.01         0.18         1.85         0.88         0.19           61         4.04         2.63         0.47         3.13         5.15         1.12           62         2.66         1.07         0.19         1.98         0.85         0.18           63         2.79         0.07         0.16         1.57         0.63         0.14           64         1.32         0.41         0.07         1.57         0.52         0.11           65         1.54         0.77         0.14         1.47         0.53         0.11           65         1.54         0.77         0.05         1.48         0.47         0.10           67         1.27         0.27         0.05         1.38         0.56         0.12           68         1.40         0.40         0.07         1.51         0.55         0.12           69         1.43         0.24         0.04         1.72         0.67         0.14  | 56        | 1.49         | 0.45                                 | 0.12         | 1.93         | 0. <del>99</del>  | 0.21         |
| 60         3,20         1.01         0.18         1.85         0.88         0.19           61         4,04         2.63         0.47         3.13         5.15         1.12           62         2.66         1.07         0.19         1.98         0.85         0.18           63         2.79         0.07         0.16         1.57         0.63         0.14           64         1.32         0.41         0.07         1.57         0.52         0.11           65         1.54         0.77         0.14         1.47         0.53         0.11           66         1.16         0.29         0.05         1.48         0.47         0.10           67         1.27         0.27         0.05         1.38         0.56         0.12           68         1.40         0.40         0.07         1.51         0.55         0.12           69         1.43         0.24         0.04         1.72         0.67         0.14           70         1.52         0.34         0.06         1.86         0.80         0.17           71         1.61         0.58         0.10         2.15         1.21         0.26  | 58        | 3.16         | 0.87                                 | 0.15         | 1.78         | 0.98              | 0.20         |
| 61 4.04 2.63 0.47 3.13 5.15 1.12 62 2.66 1.07 0.19 1.98 0.85 0.18 63 2.79 0.87 0.16 1.57 0.53 0.14 64 1.32 0.41 0.07 1.57 0.52 0.11 65 1.54 0.77 0.14 1.47 0.53 0.11 66 1.16 0.29 0.05 1.48 0.47 0.10 67 1.27 0.27 0.05 1.38 0.56 0.12 68 1.40 0.40 0.07 1.51 0.55 0.12 69 1.43 0.24 0.04 1.72 0.67 0.14 70 1.52 0.34 0.06 1.86 0.80 0.17 71 1.61 0.58 0.10 2.15 1.21 0.26 72 1.51 0.61 0.11 2.05 0.99 0.21 73 1.32 0.52 0.09 2.17 1.31 0.28 74 1.32 0.67 0.12 2.05 0.94 0.20 75 1.36 0.49 0.12 1.86 1.00 0.22 76 1.82 1.68 0.30 2.31 0.98 0.21 77 1.18 0.62 0.11 1.95 1.01 0.22 78 1.25 0.39 0.07 2.01 0.90 0.20  |           | 2.96<br>3.20 | 0. <b>89</b><br>1. <b>01</b>         | 0.16<br>0.18 | 1.81<br>1.85 | 0.88              | 0.20<br>0.19 |
| 63         2.79         0.87         0.16         1.57         0.63         0.14           64         1.32         0.41         0.07         1.57         0.52         0.11           65         1.54         0.77         0.14         1.47         0.53         0.11           66         1.16         0.29         0.05         1.48         0.47         0.10           67         1.27         0.27         0.05         1.38         0.56         0.12           68         1.40         0.40         0.07         1.51         0.55         0.12           69         1.43         0.24         0.04         1.72         0.67         0.14           70         1.52         0.34         0.06         1.86         0.80         0.17           71         1.61         0.58         0.10         2.15         1.21         0.26           72         1.51         0.61         0.11         2.05         0.99         0.21           73         1.32         0.52         0.09         2.17         1.31         0.28           74         1.32         0.67         0.12         2.05         0.94         0.20  | 61        | 4.04         | 2.43                                 | 0.47         | 3.13         | 5.15              | 1.12         |
| 66       1.16       0.29       0.05       1.48       0.47       0.10         67       1.27       0.27       0.05       1.38       0.56       0.12         68       1.40       0.40       0.07       1.51       0.55       0.12         69       1.43       0.24       0.04       1.72       0.67       0.14         70       1.52       0.34       0.06       1.86       0.80       0.17         71       1.61       0.58       0.10       2.15       1.21       0.26         72       1.51       0.61       0.11       2.05       0.99       0.21         73       1.32       0.52       0.09       2.17       1.31       0.28         74       1.32       0.67       0.12       2.05       0.94       0.20         75       1.36       0.49       0.12       1.86       1.00       0.22         76       1.82       1.68       0.30       2.31       0.98       0.21         77       1.18       0.62       0.11       1.95       1.01       0.22         78       1.25       0.39       0.07       2.01       0.90       0.20   | 83        | 2.79         | 0.87                                 | 0.16         | 1.57         | 0.43              | 0.14         |
| 66       1.16       0.29       0.05       1.48       0.47       0.10         67       1.27       0.27       0.05       1.38       0.56       0.12         68       1.40       0.40       0.07       1.51       0.55       0.12         69       1.43       0.24       0.04       1.72       0.67       0.14         70       1.52       0.34       0.06       1.86       0.80       0.17         71       1.61       0.58       0.10       2.15       1.21       0.26         72       1.51       0.61       0.11       2.05       0.99       0.21         73       1.32       0.52       0.09       2.17       1.31       0.28         74       1.32       0.67       0.12       2.05       0.94       0.20         75       1.36       0.49       0.12       1.86       1.00       0.22         76       1.82       1.68       0.30       2.31       0.98       0.21         77       1.18       0.62       0.11       1.95       1.01       0.22         78       1.25       0.39       0.07       2.01       0.90       0.20   | 65        | 1.54         | 0.77                                 | 0.14         | 1.47         | 0.53              | 0.11         |
| 69     1.43     0.24     0.04     1.72     0.67     0.14       70     1.52     0.34     0.06     1.86     0.80     0.17       71     1.61     0.58     0.10     2.15     1.21     0.26       72     1.51     0.61     0.11     2.05     0.99     0.21       73     1.32     0.67     0.12     2.05     0.94     0.28       74     1.32     0.67     0.12     2.05     0.94     0.20       75     1.36     0.69     0.12     1.86     1.00     0.22       76     1.82     1.68     0.30     2.31     0.98     0.21       77     1.18     0.62     0.11     1.95     1.01     0.22       78     1.25     0.39     0.07     2.01     0.90     0.20  | 66<br>67  | 1.16         | 0.27                                 | 0.05<br>0.05 | 1.38         | 0.4/              | 0.12         |
| 70 1.52 0.34 0.06 1.86 0.80 0.17 71 1.61 0.58 0.10 2.15 1.21 0.26 72 1.51 0.61 0.11 2.05 0.99 0.21 73 1.32 0.67 0.12 2.05 0.94 0.20 75 1.36 0.69 0.12 1.86 1.00 0.22 76 1.82 1.68 0.30 2.31 0.98 0.21 77 1.18 0.62 0.11 1.95 1.01 0.22 78 1.25 0.39 0.07 2.01 0.90 0.20  | 68<br>69  | 1.40         | 0.40                                 | 0.07         | 1.51         | 0.55<br>0.67      | 0.12         |
| 72 1.51 0.41 0.11 2.05 0.99 0.21<br>73 1.32 0.52 0.09 2.17 1.31 0.28<br>74 1.32 0.67 0.12 2.05 0.94 0.20<br>75 1.36 0.49 0.12 1.86 1.00 0.22<br>76 1.82 1.48 0.30 2.31 0.98 0.21<br>77 1.18 0.62 0.11 1.95 1.01 0.22<br>78 1.25 0.39 0.07 2.01 0.90 0.20   | 70        | 1.52         | 0.34                                 | 0.06         | 1.86         | 0.80              | 0.17         |
| 74 1.32 0.67 0.12 2.05 0.94 0.20 75 1.36 0.69 0.12 1.86 1.00 0.22 76 1.82 1.68 0.30 2.31 0.98 0.21 77 1.18 0.62 0.11 1.95 1.01 0.22 78 1.25 0.39 0.07 2.01 0.90 0.20   | 72        | 1.51         | 0.61                                 | 0.11         | 2.05         | 0.99              | 0.21         |
| 75 1.36 0.49 0.12 1.86 1.00 0.22<br>76 1.82 1.48 0.30 2.31 0.98 0.21<br>77 1.18 0.62 0.11 1.95 1.01 0.22<br>78 1.25 0.39 0.07 2.01 0.90 0.20   | 74        | 1.32         | 0.67                                 | 0.12         | 2.05         | 0.94              | 0.20         |
| 77 1.18 0.62 0.11 1.95 1.01 0.22 78 1.25 0.39 0.07 2.01 0.90 0.20  | 76        | 1.36         | 0.49<br>1.48                         |              | 1.86<br>2.31 | 1.00<br>0.98      | 0.22<br>0.21 |
| 79 1.52 0.37 0.07 2.01 0.87 0.19<br>80 1.35 0.39 0.07 1.92 0.95 0.21   | 77        | 1.18         | 0.62<br>0.39                         | 0.11         | 1.95         | 1.01              | 0.22         |
|  | 79        | 1.52         | 0.37                                 | 0.07         | 2.01         | 0.87              | 0.19         |

| Yr                         |                              | l Require<br>Mildings<br>SDev  | 90Z<br>+/-               | tenance<br>Teap<br>Hean | Buildings<br>SDev  | 90Z<br>+/-               |
|----------------------------|------------------------------|--|--------------------------|-------------------------|--|--------------------------|
| 1<br>2<br>3                | 0.07<br>0.52                 | 0.08<br>0.26   | 0.02                     | 0.22<br>0.62<br>0.66    | 0.12<br>0.19<br>0.22   | 0.04<br>0.06<br>0.07     |
| 4                          | 0.53<br>0.63                 | 0.26<br>0.27<br>0.26   | 0.08<br>0.08             | 0.71                    | 0.24   | 0.08                     |
| 5                          | 0.64<br>0.67                 | 0.26<br>0.31   | 0.07<br>0.0 <del>9</del> | 0.78<br>6.82            | 0.28<br>0.28   | 0.09                     |
| 6 7                        | 0.48                         | 0.32<br>0.29   | 0.09                     | 0.82<br>0.93            | 0.25<br>0.26   | 0.08                     |
| 8<br>9                     | 0.77<br>0.80                 | 0.36   | 0.08<br>0.11             | 0.88                    | 0.29   | 0.10                     |
| 10<br>11                   | 0.75<br>0.81                 | 0.29   | 0.08<br>0.10             | 0.88<br>0.96            | 0.28<br>0.28   | 0.09                     |
| 12<br>13                   | 0.75<br>0.79                 | 0.34<br>0.38   | 0.10                     | 0.86                    | 0.30   | 0.10                     |
| 14                         | 0.78                         | 0.56   | 0.16                     | 0.87                    | 0.28   | 0.09                     |
| 15<br>16                   | 0.78<br>1.15                 | 0.31<br>0.40   | 0.09                     | 0.97                    | 0.24<br>0.29   | 0.08<br>0.10             |
| 17<br>18                   | 0.76<br>0.72                 | 0.33<br>0.52   | 0.10<br>0.15             | 0.87<br>0.87            | 0.28<br>0.28   | 0.09                     |
| 19                         | 0.71                         | 0.28   | 0.08                     | 0.89                    | 0.31<br>0.35   | 0.10                     |
| 20<br>21                   | 0.72<br>1.10                 | 0.33<br>0.36   | 0.10<br>0.10             | 1.00                    | 0.27   | 0.09                     |
| 22<br>23                   | 0.73<br>0.63                 | 0.26   | 0.08<br>0.09             | 0.93                    | 0.22<br>0.33   | 0.0 <b>6</b><br>0.11     |
| 21<br>22<br>23<br>24<br>25 | 0.56                         | 0.29<br>0.33   | 0.10                     | 0.90                    | 0.29<br>0.34   | 0.10                     |
| 26                         | 0.86                         | 0.45<br>0.40   | 0.13                     | 0.98                    | 0.31   | 0.10                     |
| 27<br>28                   | 0.70<br>0.77                 | 0.32<br>0.30   | 0.09<br>0.09             | 0.84<br>0.91            | 0.28<br>0.33   | 0.09                     |
| 28<br>29<br>30             | 0.88                         | 0.53<br>0.29   | 0.15                     | 0.96<br>0.88            | 0.33<br>0.24<br>0.29   | 0.08<br>0.10             |
| 31                         | 1.16                         | 0.39   | 0.11                     | 0.92                    | 0.29<br>0.30<br>0.25   | 0.10                     |
| 32<br>33                   | 0.73<br>0.79                 | 0.31<br>0.37   | 0.09<br>0.11             | 0.84<br>0.79            | 0.24<br>0.27   | 0.08<br>0.08             |
| 34<br>3 <b>5</b>           | 0.75<br>0.68                 | 0.53<br>0.35   | 0.15<br>0.10             | 0.81<br>0.84            | 0.77   | 0.0 <del>9</del><br>0.09 |
| 36<br>37                   | 0.78                         | 0.32   | 0.09                     | 0.95<br>0.93            | 0.24<br>0.31<br>0.32   | 80.0                     |
| 38                         | 0.74<br>0.71                 | 0.35   | 0.08                     | 0.93                    | 0.32   | 0.11                     |
| 39<br>40                   | 0. <b>64</b><br>0. <b>68</b> | 0.29<br>0.30   | 0.08<br>0.09             | 0.83<br>0.85            | 0.27<br>0.32   | 0.0 <del>9</del><br>0.11 |
| 41<br>42                   | 0.98<br>0.74                 | 0.45   | 0.13<br>0.07             | 0.89<br>0.87            | 0.33   | 0.11<br>0.07             |
| 43                         | 0.71                         | 0.2 <del>9</del>   | 0.08                     | 0.91                    | 0.28   | 0.09                     |
| 44<br>45                   | 0.47<br>0.76                 | 0.31<br>0.53   | 0.0 <del>9</del><br>0.15 | 0.88<br>0.90            | 0.31<br>0.32   | 0.10                     |
| 46<br>47                   | 0. <b>85</b><br>1.06         | 0.36   | 0.10<br>0.12             | 0.88<br>0.92            | 0.32<br>0.24   | 0.11                     |
| 48<br>49                   | 0.73                         | 0.34   | 0.10                     | 0.89                    | 0.30<br>0.21   | 0.10                     |
| 50                         | 0.95<br>0.80                 | 0.33   | 0.10                     | 0.92                    | ค 32   | 0.11                     |
| 51<br>52                   | 1.13                         | 0.77<br>0.27   | 0.22<br>0.08             | 0.93                    | 0.32<br>0.29   | 0.11<br>0.10<br>0.10     |
| 53<br>54                   | 0.69                         | 0.27<br>0.31<br>0.32   | 0.09                     | 0.89                    | 0.30<br>0.28   | 0.10                     |
| 55                         | 0.76                         | 0.31   | 0.09                     | 0.95                    | 0.33<br>0.27   | 0.11                     |
| 56<br>57                   | 0.74<br>0. <b>85</b>         | 0.30<br>0.34   | 0.09                     | 0.98<br>0.93            | 0.26   | 0.09                     |
| 58<br>59                   | 0.67<br>0.74                 | 0.30<br>0.55<br>0.33   | 0.09                     | 0.90<br>0.87            | 0.26<br>0.30<br>0.27<br>0.30   | 0.10                     |
| 60                         | 0.74<br>0.74<br>1.35         | 0.33<br>0.43   | 0.10                     | 0.90                    | 0.30   | 0.10                     |
| 62<br>63                   | 0.72                         | 0.27   | 0.08                     | 0.92                    | 0.33<br>0.20   | 0.07                     |
| 64                         | 0.69                         | 0.27   | 0.16                     | 0.85<br>0.91            | 0.19<br>0.28<br>0.33   | 0.06                     |
| 65<br>66                   | A 74                         | 0.31<br>0.31   | 0.09<br>0.0 <del>9</del> | 0.90<br>0.89            | 0.33   | 0.11                     |
| 67<br>68                   | 0.70                         | 0.32   | 0.09                     | 0.87<br>0.86            | 0.33   | 0.11                     |
| 69<br>70                   | 0.70<br>0.70<br>0.73<br>0.74 | 0.31   | 0.09                     | 0.85                    | 0.28   | 0.09                     |
| 71                         | 0.85                         | 0.27<br>0.54<br>0.27<br>0.31<br>0.31<br>0.32<br>0.29<br>0.31<br>0.34<br>0.36 | 0.10<br>0.10             | 0. <b>86</b><br>0.92    | 0.24   | 0.08                     |
| 72<br>73<br>74             | 0.76<br>0.87                 | 0.37   | 0.0 <del>9</del><br>0.13 | 0.81                    | 0.26<br>0.30   | 0.09<br>0.10             |
| 74<br>75                   | 0.74<br>0.68                 | 0.44<br>0.56<br>0.32   | 0.16                     | 0.92<br>0.86<br>0.87    | 0.27   | 0.09                     |
| 76                         | 1.19                         | 0.42<br>0.25   | 0.12                     | 0.92                    | 0.30<br>0.33<br>0.29<br>0.28<br>0.24<br>0.24<br>0.26<br>0.30<br>0.27<br>0.27 | 0.09                     |
| 77<br>7 <b>8</b>           | 0.92<br>0.77<br>0.73         | 0.25<br>0.26<br>0.53   | 0.07                     | 0.87<br>0.88            | 0.19<br>0.31<br>0.30   | 0.06                     |
| 79<br>80                   | 0.73<br>0.70                 | 0. <b>53</b><br>0.27   | 0.15                     | 0.83<br>0.87            | 0.30<br>0.29   | 0.10<br>0.10             |
|                            | -                            | -  |                          |                         |  |                          |

| Yr   | Majo<br>Pern<br>Mean   | r Compone<br>Buildings<br>SDev  | 902<br>+/-  | acesent<br>Teop<br>Heas                                      | Buildings<br>SDev   | 90I<br>+/-  |
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| 0.12247999140592706384451433944997883105770000.100.4359234988055655986638805.5653986638805.5653986638805.66805.66805.66805.66805 | 0.04-04-04-04-04-04-04-04-04-04-04-04-04-0 |

| Aonual<br>Yr  | Requir<br>All B<br>Mean   | ed Maists<br>uildings<br>SDev   | mance<br>901<br>+/-   |
|---|---|---|---|
| 123456789011231451678902122324252678901233453678994012344567899012334556789901233456666677777778798 | 0.416<br>1.19<br>1.24<br>1.30<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35 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| 1233343322230324422997223334442221551447422342449666422223475221524232423254423254222224222244232224422222222 |

| Major<br>Yr  | Compon<br>All<br>Mean                                   | ent Repla<br>Buildings<br>SDev             |  |
|--|---|--|--|
| 123456789012345678901232222222222333333333333456789012345678901234567890 | 0.00100512279884609011010101010101010000000000000000000 | 0.0010834000000000000000000000000000000000 | 0.000003011135034885643400000.1113509764534030000.121435997645340300000.121633884834000000.1216338848340000000000000000000000000000000 |

| Total<br>Yr   | Mainten<br>All B<br>Mean                      | ance<br>wildings<br>SDev  | 90I<br>+/-                             |
|---|---|---|--|
| 1234567890112345678901222222222223456789012333333333333333333333333333333333333 | 0.1.1.1.1.1.1.2.1.1.2.1.1.1.2.3.2.2.2.1.1.1.1 | 0.558<br>0.559<br>0.559<br>0.557<br>0.657<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653<br>0.653 | 00000000000000000000000000000000000000 |

| Yr                               |                      | al Require<br>Buildings<br>SDev | 901<br>+/-           | tenance<br>Temp<br>Hean | Buildings<br>SDev    | 90I<br>+/-   |
|----------------------------------|----------------------|---------------------------------|----------------------|-------------------------|----------------------|--------------|
| 1<br>2<br>3                      | 0.26                 | 0.18<br>0.28                    | 0.03                 | 0.36<br>0.80            | 0.17<br>0.31         | 0.04         |
| 3<br>4                           | 0.67                 | 0.29                            | 0.05                 | 0.83<br>0.96            | 0.31<br>0.30         | 0.07<br>0.07 |
| 5                                | 0.77<br>0.75         | 0.28<br>0.28                    | 0.05                 | 0.98                    | 0.30                 | 0.07         |
| 6<br>7                           | 0.81<br>0.84         | 0.32<br>0.34                    | 0.05<br>0.05         | 1.03                    | 0.29<br>0.29         | 0.07         |
| 8                                | 0.87                 | 0.32                            | 0.05                 | 1.10                    | 0.30                 | 0.07         |
| 9<br>10                          | 0.94<br>0.86         | 0.33<br>0.31                    | 0.05<br>0.05         | 1.15                    | 0.28<br>0.30         | 0.07<br>0.07 |
| 11<br>12                         | 0.91                 | 0.35<br>0.39                    | 0.06                 | 1.12                    | 0.26<br>0.36         | 0.06         |
| 13                               | 0.99                 | 0.29                            | 0.05                 | 1.12                    | 0.31                 | 0.07         |
| 14<br>15                         | 0.99                 | 0.39<br>0.36                    | 0.06                 | 1.13                    | 0.35<br>0.32         | 0.08<br>0.08 |
| 16<br>17                         | 1.06                 | 0.43<br>0.32                    | 0.07<br>0.05         | 1.17                    | 0.33<br>0.34         | 0.08<br>80.0 |
| 18                               | 1.04                 | 0.41                            | 0.07                 | 1.15                    | 0.40                 | 0.09         |
| 19<br>20                         | 0.99<br>0.94         | 0.34<br>0.28                    | 0.05<br>0.05         | 1.15                    | 0.30<br>0.45         | 0.07<br>0.10 |
| 21                               | 0.95                 | 0.28<br>0.29<br>0.27            | 0.05                 | 1.16                    | 0.32<br>0.29         | 0.08<br>0.07 |
| 20<br>21<br>22<br>23<br>24<br>25 | 0.89                 | 0.35                            | 0.06                 | 1.20                    | 0.26                 | 0.06         |
| 24<br>25                         | 0. <b>88</b><br>0.91 | 0.26<br>0.33                    | 0.04<br>0.05         | 1.17                    | 0.29                 | 0.07<br>0.07 |
| 26<br>27                         | 0.97                 | 0.36                            | 0.06                 | 1.11                    | 0.27<br>0.32         | 0.06         |
| 28                               | 1.03                 | 0.40<br>0.31                    | 0.06<br>0.05         | 1.16                    | 0.31                 | 0.07         |
| 29<br>30                         | 1.08                 | 0.40<br>0.29                    | 0.06<br>0.05         | 1.26<br>1.18            | 0 17<br>u.35         | 0.11         |
| 31<br>32                         | 1.07                 | 0.46                            | 0.07                 | 1.10                    | 0.35<br>0.34         | 0.08         |
| 33                               | 0.96                 | 0.30<br>0.42                    | 0.07                 | 1.14                    | 0.33                 | 0.08         |
| 33<br>34<br>35                   | 0.93                 | 0.31                            | 0.05<br>0.05         | 1.11                    | 0.33                 | 0.08         |
| 36<br>37                         | 0.82                 | 0.29                            | 0.05                 | 1.07                    | 0.31<br>0.29<br>0.39 | 0.07<br>0.09 |
| 38                               | 0.81                 | 0.30                            | 0.05                 | 1.15                    | 0.29                 | 0.07         |
| 39<br>40                         | 0.82<br>0.87         | 0.33<br>0.30                    | 0.05<br>0.05         | 1.09                    | 0.31                 | 0.07<br>0.07 |
| 41<br>42                         | 0.87                 | 0.32<br>0.39                    | 0.05                 | 1.09                    | 0.29<br>0.38         | 0.07<br>0.09 |
| 43                               | 1.00                 | 0.36                            | 0.06                 | 1.14                    | 0.28                 | 0.06         |
| 44<br>45                         | 1.03                 | 0.39<br>0.30                    | 0.06<br>0.05         | 1.12                    | 0.33<br>0.41         | 0.08<br>0.10 |
| 46<br>47                         | 1.09                 | 0.43                            | 0.07                 | 1.24                    | 0.48                 | 0.11         |
| 48                               | 1.10                 | 0.40                            | 0.06                 | 1.18                    | 0.32<br>0.37<br>0.34 | 0.08         |
| 49<br>50                         | 1.05                 | 0.33<br>0.28                    | 0.05<br>0.04         | 1.21                    | 0.34                 | 0.08<br>0.08 |
| 51                               | 0.99                 | 0.38                            | 0.06                 | 1.14                    | 0.26                 | 0.06         |
| 52<br>53                         | 0.92                 | 0.33                            | 0.05                 | 1.13                    | 0.28                 | 0.07         |
| 54<br>55                         | 0.91                 | 0.32<br>0.32                    | 0.05                 | 1.17                    | 0.42                 | 0.10         |
| 56<br>57                         | 0.90                 | 0.30<br>0.40                    | 0.05<br>0.06         | 1.16                    | 0.29<br>0.33<br>0.32 | 0.07<br>0.08 |
| 58                               | 0.97                 | 0.28                            | 0.04                 | 1.19                    | 5.32                 | 0.07         |
| 59<br>60                         | 0.99<br>1.03         | 0.37<br>0.34                    | 0.06<br>0.05         | 1.08                    | 0.33<br>0.32<br>0.36 | 0.08<br>0.07 |
| 61<br>62                         | 1.01                 | 0.44                            | 0.07<br>0.05         | 1.09<br>1.18            | 0.43                 | 0.08         |
| 63                               | 0.97                 | 0.28<br>0.38<br>0.29            | 0.06                 | 1.11                    | 0.34<br>0.32         | 0.03         |
| 64<br>65                         | 0.91<br>0.87         | 0.29                            | 0.05<br>0.05         | 1.08                    | 0.32                 | 0.07<br>0.07 |
| 66<br>67                         | 0.86<br>0.91         | 0.31<br>0.31<br>0.37            | 0.0 <b>5</b><br>0.06 | 1.15<br>1.15            | 0.29<br>0.29<br>0.28 | 0.07<br>0.07 |
| 68                               | 0.91                 | 0.34<br>0.30                    | 0.05                 | 1.07                    | 0.28<br>0.25         | 0.06         |
| 69<br>70                         | 0.89<br>0.89         | 0.30                            | 0.05<br>0.05         | 1.10                    | 0.30                 | 0.06         |
| 71<br>72<br>73                   | 0.96<br>1.03         | 0.38<br>0.42                    | 0.06                 | 1.27                    | 0.39<br>0.31         | 0.09         |
| 73                               | 1.04                 | 0.33                            | 0.05                 | 1.18                    | 0.32                 | 0.07         |
| 74<br>75                         | 1.00                 | 0.38<br>0.34                    | 0.06                 | 1.15                    | 0.37<br>0.32         | 0.08         |
| 7 <b>6</b><br>77                 | 1.09<br>0.98         | 0.45                            | 0.07<br>0.05         | 1.10<br>1.08            | 0.36                 | 0.08         |
| 7 <b>8</b><br>7 <b>9</b>         | 0.98<br>0.95         | 0.32<br>0.33                    | 0.05                 | 1.05                    | 0.34<br>0.34<br>0.36 | 0.08         |
| 80                               | 0.95                 | 0.33<br>0.30                    | 0.05                 | 1.08                    | 0.32                 | 0.08         |

| Yr  |  | Components SDev  | t Replac<br>901<br>+/-  | reent<br>Teep Bu<br>Mean                        | ildings<br>S <b>Dev</b>  | 901<br>+/-   |
|---|--|--|---|---|--|--|
| Yr 12345678901123415678902122345678903332334544444444444444445612334556789061 | Pers B  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | 11 dings 11 dings 10.00 0.00 0.01 0.00 0.01 0.01 0.02 0.01 0.02 0.02   | 901<br>- 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00 | Temp Mean  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | S0ev 0.000 0 | +/- 0.000 0. |
| 58<br>59<br>60  | 1.26<br>1.91<br>0.74                         | 1.99<br>1.95<br>0.37<br>0.59<br>0.58<br>0.20<br>0.20<br>0.40<br>0.63<br>0.40<br>0.51<br>0.49<br>0.49<br>0.49<br>0.48<br>0.95<br>0.22<br>0.48<br>0.47<br>0.59 | 0.31  | 1.43<br>1.30<br>0.75                            | 1.00<br>1.05<br>0.41   | 0.24   |

| Yr   |  | l Mainten<br>Buildings<br>SBev  |  | Tenp<br>Heam  | Buildings<br>SDev  | 901<br>+/-   |
|--|--|---|--|---|--|--|
| 123456789012345678901234567890123456789012345678901234567890 | 0.0.647<br>0.0.647<br>0.0.883<br>0.0.899<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0.109<br>1.0 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| 0.883<br>0.893<br>0.977<br>1.13<br>1.399<br>1.13<br>1.399<br>1.31<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34 | 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| Yr                     | Total<br>Pers Bu<br>Hean     | Maintona<br>ildings<br>SDev | 90Z<br>+/-                                   | Teep S<br>Hean       | uildings<br>Sõev     | 901<br>+/-           |
|------------------------|------------------------------|-----------------------------|--|----------------------|----------------------|----------------------|
| 1 2                    | 0.28<br>0.70                 | 0.21<br>0.33                | 0.07   | 0.12<br>0.36         | 0.04                 | 0.04                 |
| 2<br>3<br>4            | 0.75<br>0.83                 | 0.33                        | 0.11   | 0.40<br>0.43         | 0.13<br>0.15         | 0.11                 |
| 5                      | 0.86<br>1.28                 | 0.38<br>0.63                | 0.12   | 0.49<br>0.48         | 0.24<br>0.14         | 0.20                 |
| 7<br>8                 | 1.30                         | 0.61<br>0.74                | 0.19   | 0.45<br>0.50         | 0.16                 | 0.13                 |
| 9<br>10                | 1.43                         | 0.66<br>0.58                | 0.21   | 0.61<br>0.59         | 0.25<br>0.20         | 0.21                 |
| 11<br>12               | 1.60                         | 0.65                        | 0.21<br>0.15                                 | 0.60<br>0.64         | 0.26<br>0.18         | 0.22<br>0.15         |
| 13<br>14               | 2.24                         | 0.72<br>0.45                | 0.23   | 0.62<br>0.80         | 0.22<br>0.72         | 0.18                 |
| 15<br>16               | 2.02                         | 0.53<br>0.59                | 0.17   | 0.73<br>0.43         | 0.49<br>0.28         | 0.57<br>0.23         |
| 17<br>18               | 1.87                         | 0.54<br>0.50                | 0.17   | 0.65<br>0.71         | 0.31                 | 0.26                 |
| 19<br>20               | 1.81                         | 0.69                        | 0.22   | 0.75<br>0.72         | 0.17<br>0.13         | 0.14                 |
| 20<br>21<br>22         | 1.55                         | 0.67<br>0.41                | 0.22   | 0.87<br>0.67         | 0.55<br>0.12         | 0.46                 |
| 23<br>24<br>25         | 1.52<br>1.62                 | 0.49                        | 0.16   | 0.62<br>0.68         | 0.25<br>0.54         | 0.21                 |
| 25<br>26               | 1.80                         | 0.42<br>0.48                | 0.20<br>0.22<br>0.20                         | 0.75<br>1.49         | 0.26<br>0.11         | 0.21<br>0.09         |
| 26<br>27<br>28         | 2.11<br>3.00                 | 0.61                        | 0.20<br>0.37<br>1.73                         | 4.55<br>0.67         | 0.74<br>0.18         | 0.61                 |
| 29<br>30               | 5.10<br>2.18<br>2.83         | 5.38<br>0.83                | 0.27   | 5.52<br>0.94         | 1.54                 | 0.05                 |
| 31<br>32               | 2.13                         | 1.52<br>0.62                | 0.49   | 4.32                 | 0.67                 | 0.56                 |
| 33<br>34               | 2.19                         | 0.89<br>0.72                | 0.29   | 0.77<br>0.87         | 0.49<br>0.13         | 0.40                 |
| 35<br>36               | 2.10                         | 0.91<br>0.72                | 0.23<br>0.29<br>0.23                         | 0.60<br>0.59         | 0.20<br>0.16         | 0.17                 |
| 37<br>3 <b>8</b>       | 1.88                         | 0.90<br>0.84                | 0.29   | 0.70<br>0.73         | 0.25<br>0.31         | 0.21                 |
| 39<br>40               | 1.96                         | 0.39<br>0.97                | 0.13   | 0.69<br>1.02         | 0.12<br>0.67         | 0.10                 |
| 41<br>42               | 1.92<br>1.48                 | 0.49<br>0.56                | 0.16   | 0.81                 | 0.45<br>0.42         | 0.53                 |
| 43<br>44               | 1.75                         | 0.64<br>0.51                | 0.21<br>0.16                                 | 0.70<br>0.58         | 0.36                 | 0.30                 |
| 45<br>46               | 1.76                         | 0.53<br>0.80                | 0.17   | 0.71<br>0.77         | 0.38<br>0.21         | 0.31                 |
| 47<br>48               | 2.32<br>2.10                 | 0.56<br>0.76                | 0.18   | 0.55<br>0.74         | 0.18                 | 0.15                 |
| 49<br>50               | 2.19<br>1.88                 | 0.72<br>0.72                | 0.23<br>0.23<br>0.27                         | 0.71<br>0.72         | 0.18                 | 0.15                 |
| 51<br>52               | 2.21                         | 0.85<br>0.78                | 0.25   | 0.83<br>0.71         | 0.77<br>0.21         | 0.63                 |
| 53<br>54               | 2.24                         | 0.59<br>0.84                | 0.19   | 1.01                 | 1.06                 | 0.87                 |
| 55<br>56               | 2.66                         | 1.36<br>0.84                | 0.44   | 4.05<br>0.69         | 1.31<br>0.21         | 1.08                 |
| 57<br>58               | 5.08<br>2.36                 | 5.30<br>0.87                | 1.70   | 5.80<br>0.69         | 1.37<br>0.12         | 0.09                 |
| 59<br>60               | 2.19                         | 1.48<br>0.53                | 0.48   | 4.84<br>4.30         | 1.66                 | 1.37                 |
| 51<br>62               | 1.98                         | 1.18                        | 0.38   | 2.24<br>0.45         | 4.02<br>0.15         | 3.32<br>0.12         |
| 63<br>64               | 1.96                         | 0.95<br>0.53<br>0.75        | 0.30<br>0.17                                 | 0.61<br>0.86         | 0.15                 | 0.13<br>0.15<br>0.26 |
| 65<br>66               | 2.16<br>1.85                 | 0.60                        | 0.17<br>0.24<br>0.19<br>0.21<br>0.19<br>0.28 | 0.74<br>0.85         | 0.32<br>0.74         | 0.61                 |
| 67<br>68               | 2.36<br>1.90                 | 0.66                        | 0.21   | 3.40<br>0.85         | 0.96                 | 0.80                 |
| 69<br>70               | 2.30<br>1.86                 | 0.87<br>0.67                | 0.28<br>0.21<br>0.38                         | 0.92                 | 0.43                 | 0.35<br>0.09<br>0.52 |
| 71<br>72               | 1.96<br>2.29<br>2.29<br>2.77 | 1.17<br>0.50                | 0.16   | 1.10<br>0.87<br>0.87 | 0.63<br>0.09<br>0.28 | 0.07<br>0.23         |
| 73<br>74<br>7 <b>5</b> | 7.17                         | 0.64                        | 0.21<br>0.24<br>0.28                         | 0.89                 | 0.08                 | 0.06<br>0.08         |
| 76<br>77               | 2.28<br>2.95<br>2.25         | 0.87<br>1.67<br>0.55        | u.34   | 2.39                 | 1.36                 | 1.12                 |
| 78<br>79               | 2.42                         | 0.45<br>0.89                | 0.18<br>0.15<br>0.29                         | 0.82<br>1.36         | 0.10                 | 0.08                 |
| 80                     | 2.32                         | 0.56                        | 0.18   | 1.04                 | 0.23                 | 0.19                 |

| Yr  |  | ıl Requir<br>Nuildings<br>SDev   |  | tenance<br>Teap<br>Hean   | Buildings<br>SDev  | 90I<br>+/-   |
|---|--|--|--|---|--|--|
| 12345678901234567890123456789012334567890123456789012334567890123345678901234566666666678901234567890 | 0.1.1.1.2.2.2.2.2.2.2.2.2.1.2.2.2.2.2.2. | 0.28<br>0.15<br>0.15<br>0.16<br>0.20<br>0.21<br>0.21<br>0.21<br>0.21<br>0.21<br>0.22<br>0.21<br>0.21<br>0.22<br>0.21<br>0.22<br>0.22<br>0.23<br>0.21<br>0.22<br>0.22<br>0.22<br>0.23<br>0.21<br>0.22<br>0.22<br>0.23<br>0.21<br>0.22<br>0.22<br>0.23<br>0.23<br>0.24<br>0.25<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27<br>0.27 | 0.17<br>0.09<br>0.10<br>0.12<br>0.12<br>0.13<br>0.12<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13<br>1.13 | 0.06.849938891863671911099337111100.9945081111100.99538891863671111111111111111111111111111111111 | 0.04<br>0.04<br>0.04<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01 | 0.04480000.12113115510029000.000.000000000000000000000000000 |

| Yr   |  | or Compone<br>Buildings<br>SDev  |   | acesent<br>Tesp<br>Mean | Buildings<br>SDev                          | 90I<br>+/-                             |
|--|--|--|---|-------------------------|--|--|
| Y 1234567890112345678901123345678901123345678901123345678901123345678901123345678901123345678901123345678901123345678901123345678901123345678901123345678901123345678901123345678901123345678900011233456789000000000000000000000000000000000000 | Nean 00.00236050501414430691501600000000000000000000000000000000 | SDev 0 0 0 0 1 1 2 3 3 3 3 9 0 0 0 0 0 1 1 2 3 3 3 3 9 0 0 0 0 0 0 0 1 2 3 3 3 3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | +/- 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 |                         | SDev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | - 000000000000000000000000000000000000 |

| Yr                               | Tota<br>Pera<br>Mesa   | l Maintena<br>Buildings<br>SDev | 90Z<br>+/-           | Teap<br>Nean         | Buildings<br>SDev        | 90I<br>+/-   |
|----------------------------------|--|---------------------------------|----------------------|----------------------|--------------------------|--|
| 1 2                              | 0.31   | 0.28<br>0.15                    | 0.17                 | 0.25<br>0.65         | 0.02<br>0.04             | 0.02<br>0.04   |
| 3                                | 1.77   | 0.15<br>0.17                    | 0.09                 | 0.66<br>0.85         | 0.05<br>0.08             | 0.04   |
| 5                                | 2.07   | 0.23                            | 0.14                 | 1.00                 | 0.11<br>0.13             | 0.10<br>0.13   |
| <b>6</b><br>7                    | 2.10   | 0.22<br>0.23                    | 0.14                 | 0.84<br>0.88         | 0.01                     | 0.01   |
| 8<br>9                           | 2.0 <del>9</del><br>2.72   | 0.24<br>0.48                    | 0.15                 | 1.15<br>1.23         | 0.39<br>0.27             | 0.38   |
| 10                               | 2.23<br>7.20   | 0.24                            | 0.15                 | 1.23                 | 0.25<br>0.25             | 0.24   |
| 11<br>12                         | 2.22   | 2.57<br>0.25                    | 0.15                 | 1.03                 | 0.04                     | 0.04   |
| 13<br>14                         | 2.49<br>2.25<br>2.30   | 0.36<br>0.24<br>0.20            | 0.22<br>0.15         | 1.35<br>1.01         | 0.15<br>0.05             | 0.14   |
| 15<br>16                         | 2.30<br>2.73   | 0.20<br>0.45                    | 0.12<br>0.28         | 1.40                 | 0.4 <del>9</del><br>0.05 | 0.46   |
| 17                               | 2.82   | 9.50                            | 0.31                 | 1.28                 | 0.26                     | 0.24   |
| 18<br>19                         | 2.24<br>2.55   | 0.22<br>0.41                    | 0.25                 | 1.66                 | 0.48<br>0.07             | 0.06   |
| 20<br>21                         | 2.22<br>8.05   | 0.24<br>2.96                    | 0.15<br>1.84         | 1.75                 | 0.25<br>0.20             | 0.24   |
| 22<br>23                         | 2.13<br>2.25   | 0.23<br>0.25                    | 0.15                 | 2.42<br>1.20         | 0.30<br>0.39             | 0.29<br>0.37   |
| 24                               | 2.23   | 0.24                            | 0.15                 | 1.44                 | 0.02                     | 0.02   |
| 25<br>26<br>27<br>28             | 3.11<br>4.59   | 0.65<br>0.74                    | 0.40<br>0.46         | 1.50                 | 0.28<br>0.12             | 0.27   |
| 27<br>28                         | 3.00<br>2.33   | 0.41<br>0.27                    | 0.25                 | 1.94                 | 0.52<br>1.02             | 0.49   |
| 29                               | 3.64   | 2.48                            | 1.54                 | 1.40<br>2.11         | 0.10                     | 0.09   |
| 29<br>30<br>31<br>32<br>33<br>34 | 3.00<br>10.10  | 0.43<br>3.34                    | 2.07                 | 1.14                 | 0.19                     | 0.18   |
| 32<br>33                         | 2.48<br>3.07<br>2.42   | 0.30<br>0.59                    | 0.18                 | 1.86                 | 0.16                     | 0.15   |
| 34<br>35                         | 2.42   | 0.27<br>0.37                    | 0.16                 | 1.21                 | 0.04                     | 0.04   |
| 35<br>36<br>37                   | 2.49<br>2.46<br>2.82   | 0.33<br>0.51                    | 0.21                 | 1.65                 | 0.75<br>0.11             | 0.71   |
| 38                               | 2.34   | 0.35                            | 0.22                 | 1.26                 | 0.17                     | 0.16   |
| 39<br>40                         | 2.37<br>2.40   | 0.29<br>0.31                    | 0.18<br>0.19         | 3.41<br>2.27         | 1.36                     | 1.30   |
| 41<br>42                         | 8.79<br>2.16   | 3.31<br>0.22                    | 2.05<br>0.14         | 1.37                 | 0.03<br>0.11             | 0.03   |
| 43<br>44                         | 2.18   | 0.17<br>0.27                    | 0.11                 | 1.60                 | 0.67<br>1.18             | 0.64   |
| 45                               | 2.45<br>2.85   | 0.36                            | 0.22                 | 1.45                 | 0.27                     | 0.26   |
| 46<br>47                         | 2.41   | 0.49<br>0.29                    | 0.31<br>0.18         | 1.57                 | 0.20<br>0.82             | 0.19   |
| 48<br>49                         | 2.31<br>3.24   | 0.29<br>0.68                    | 0.18<br>0.42         | 1.20                 | 0.07<br>0.25             | 0.07   |
| 50                               | 2.43   | 0.30<br>3.45                    | 0.18<br>2.26         | 1.41                 | 0.36<br>0.17             | 0.35   |
| 51<br>52                         | 2.42   | 0.28                            | 0.17                 | 1.18                 | 0.02                     | 0.02   |
| 53<br>54                         | 2.65<br>2.87   | 0.44<br>0.48                    | 0.27                 | 2.10<br>1.17         | 0.77<br>0.27             | 0.26   |
| 55<br>56                         | 3.01<br>2.51   | 0.49<br>0.31                    | 0.30<br>0.19         | 5.50<br>1.42         | 1.00                     | 0.95   |
| 57<br>58                         | 4.10   | 2.34<br>0.50                    | 1.45                 | 1.42                 | 0.33<br>1.43             | 0.31   |
| 59                               | 3.02   | 0.48                            | 0.29                 | 1.17                 | 0.13                     | 0.17   |
| 60<br>61                         | 2.48<br>10.50<br>2.30  | 0.29<br>4.17                    | 0.18<br>2.59<br>0.15 | 2.41<br>1.59         | 0.33<br>0.43             | 0.31<br>0.41<br>0.21                                 |
| 62<br>63                         | 2.30   | 0.75                            | 0.15                 | 1.19                 | 0.22<br>0.29             | 0.21<br>0.27   |
| 64<br>65                         | 2.52   | 0.27<br>0.34<br>0.39            | 0.21                 | 2.44<br>1.32<br>3.53 | 0.29<br>0.39<br>1.82     | 0.27<br>0.37<br>1.73                                 |
| 66                               | 2.50   | 0.32                            | 0.20                 | 1.30                 | 0.14                     | 0.13   |
| 67<br>68                         | 2.52   | 0.32<br>0.32<br>0.34<br>0.43    | 0.20<br>0.20<br>0.21 | 1.30<br>1.43<br>1.20 | 0.46<br>0.16             | 0.15   |
| 69<br>70                         | 2.19<br>2.52<br>2.85<br>2.50<br>2.48<br>2.52<br>2.66<br>2.44<br>7.87 | 0.43<br>0.27                    | 0.26<br>0.17<br>1.77 | 1.38                 | 0.07<br>0.25             | 0.07<br>0.24   |
| 71<br>72                         | 7.87<br>2.41   | 2.86<br>0.28                    | 1.77                 | 1.53                 | 0.50                     | 0.13<br>0.44<br>0.15<br>0.07<br>0.24<br>0.55<br>0.57 |
| 73                               | 2.41<br>3.35<br>2.50<br>2.41   | 0.48                            | 0.42<br>0.18         | 1.87                 | 0.28                     | 0.27<br>0.21<br>0.35                                 |
| 74<br>7 <b>5</b>                 | 2.41   | 0.29<br>0.19                    | 0.12                 | 1.46                 | 0.28<br>0.22<br>0.37     | 0.35   |
| 76<br>77                         | 2.66   | 2.16<br>0.39                    | 1.34                 | 1.30                 | 0.03<br>0.59             | 0.03<br>0.56   |
| 78<br>79                         | 2.35<br>2.74<br>2.44   | 0.25<br>0.45                    | 0.15                 | 2.49<br>1.58         | 0.26                     | 0.25<br>0.42   |
| 80                               | 2.44   | 0.26                            | 0.16                 | 3.88                 | 1.38                     | 1.31   |

|                      | Pera Bu                  | Regaire                  | 90I                  | Tess         | Buildings            | 90I          |
|----------------------|--------------------------|--------------------------|----------------------|--------------|----------------------|--------------|
| Yr                   | Hean                     | SDev                     | +/-                  | Hean         | SDev                 | +/-          |
| 1 2                  | 0.13                     | 0.0 <del>9</del><br>0.42 | 0.06<br>0.31         | 0.17<br>0.68 | 0.09<br>0.19         | 0.05<br>0.11 |
| 3                    | 0.91                     | 0.45                     | 0.33                 | 0.71         | 0.19                 | 0.10         |
| 4<br>5               | 0.91                     | 0.44<br>0.47             | 0.32<br>0.34         | 0.77         | 0.22                 | 0.12         |
| 5<br>6<br>7          | 1.00                     | 0.49<br>0.52             | 0.36<br>0.38         | 0.83<br>0.84 | 0.22<br>0.23         | 0.12<br>0.13 |
| 8                    | 1.04                     | 0.48                     | 0.35                 | 0.93         | 0.22                 | 0.12         |
| 9<br>10              | 1.19                     | 0.57<br>0.54             | 0.42                 | 0.99<br>0.89 | 0.27<br>0.25<br>0.33 | 0.15         |
| 11<br>12             | 1.22                     | 0.64                     | 0.47<br>0.37         | 1.03         | 0.33<br>0.22         | 0.18<br>0.12 |
| 13                   | 1.13                     | 0.58                     | 0.42                 | 0.94         | 0.24                 | 0.13         |
| 14<br>15             | 1.08                     | 0.52<br>0.52             | 0.38<br>0.38         | 0.85         | 0.23<br>0.18         | 0.13         |
| 16<br>17             | 1.13                     | 0.52<br>0.56             | 0.38                 | 0.97<br>0.90 | 0.27<br>0.25         | 0.15<br>0.13 |
| 18                   | 0.99                     | 0.48                     | 0.35                 | 0.85         | 0.19                 | 0.11         |
| 1 <del>9</del><br>20 | 1.23                     | 0. <b>5</b> 0            | 0.44                 | 0.95<br>0.87 | 0.20<br>0.22         | 0.11         |
| 20<br>21<br>22       | 1.37                     | 0.45<br>0.45             | 0.48<br>0.33         | 1.22         | 0.50<br>0.21         | 0.27         |
| 23<br>24             | 0.99                     | 0.48                     | 0.35                 | 0.94         | 0.21                 | 0.12         |
| 24<br>25             | 1.21                     | 0.62<br>0.66             | 0.46                 | 0.85         | 0.22<br>0.32         | 0.12         |
| 25<br>26             | 1.45                     | 0.52                     | 0.38                 | 1.05         | 0.33<br>0.23         | 0.18         |
| 27<br>28             | 1.07                     | 0.51                     | 0.37<br>0.36         | 0.92         | 0.22<br>0.19         | 0.12         |
| 2 <del>9</del><br>30 | 1.06                     | 0.49                     | 0.36<br>0.36         | 0.96         | 0.19<br>0.21         | 0.10<br>0.12 |
| 31                   | 1.25                     | 0.65                     | 0.48                 | 1.08         | 0.34<br>0.22         | 0.18<br>0.12 |
| 31<br>32<br>33       | 1.03                     | 0.50                     | 0.37<br>0.45         | 0.91         | 0.24                 | 0.13         |
| 34<br>35             | 1.08                     | 0.53<br>0.54             | 0.39                 | 0.86         | 0.23                 | 0.13<br>0.12 |
| 36                   | 1.04                     | 0.48                     | 0.35                 | 0.95         | 0.21<br>0.21         | 0.12         |
| 37<br>38             | 1.05                     | 0.51<br>0.58             | 0.37<br>0.43         | 0.89<br>0.89 | 0.21<br>0.22         | 0.12         |
| 39<br>40             | 0.96                     | 0.45<br>0.47             | 0.33<br>0.35         | 0.90<br>0.82 | 0.23<br>0.22         | 0.13<br>0.12 |
| 41                   | 1.35                     | 0.70                     | 0.51                 | 1.00         | 0.42                 | 0.23         |
| 42<br>43             | 0.98<br>1.03             | 0.39<br>0.51             | 0.28<br>0.37         | 0.96<br>0.98 | 0.36<br>0.20         | 0.20         |
| 44<br>45             | 0.98<br>1.01             | 0.45<br>0.55             | 0.33                 | 0.85<br>0.83 | 0.21<br>0.22         | 0.11         |
| 46                   | 1.27                     | 0.64                     | 0.47                 | 0.90         | 0.32<br>0.17         | 0.18         |
| 47<br>48             | 1.03                     | 0.44                     | 0.32<br>0.44         | 0.97<br>0.84 | 0.17<br>0.21         | 0.09<br>0.11 |
| 49                   | 1.20                     | 0.49                     | 0.46<br>3.36         | 0.97         | 0.23<br>0.23         | 0.13         |
| 50<br>51             | 1.44                     | 0.80                     | 0.58                 | 1.11         | 0.54                 | 0.29         |
| 52<br>53             | 1.27                     | 0.40<br>0.52             | 0.29<br>0.38         | 0.98<br>0.91 | 0.25<br>0.23         | 0.13         |
| 54                   | 1.05                     | 0.48                     | 0.35                 | 0.86         | 0.21                 | 0.11<br>0.15 |
| 55<br>56             | 1.12                     | 0.62<br>0.52             | 0.46<br>0.38         | 0.89         | 0.27<br>0.22         | 0.12         |
| 57<br>58             | 1.26                     | 0.58<br>0.47             | 0.43                 | 0.94         | 0.26                 | 0.14         |
| 59                   | 1.05                     | 0.50<br>0.48             | 0.34<br>0.37<br>0.35 | 0.92<br>0.85 | 0.20<br>0.24<br>0.20 | 0.13         |
| 60<br>61             | 1.00                     | 9.61                     | 0.45                 | 0.99         | 0.36<br>0.25         | 0.19         |
| 62<br>63             | 0.9 <del>7</del><br>1.00 | 0.38                     | 0.28<br>0.36         | 0.96         | 0.22                 | 0.14         |
| 64                   | 1.04                     | 0.47                     | 0.34                 | 0.90         | 0.19                 | 0.10         |
| 65<br>66             | 1.14                     | 0.59<br>0.55             | 0.43                 | 0.90         | 0.19<br>0.26<br>0.22 | 0.12         |
| 67<br>68             | 1.06                     | 0.54<br>0.50             | 0.40                 | 0.91<br>0.87 | 0.25<br>0.22<br>0.20 | 0.14         |
| 49                   | 1.02                     | ú.47                     | 0.35                 | 0.89         | 0.20                 | 0.11         |
| 70<br>71             | 1.02                     | 0.49                     | 0.36                 | 0.86<br>1.01 | 0.22<br>0.37<br>0.20 | 0.12         |
| 72<br>73             | 0.99                     | 0.49                     | 0.36                 | 0.87<br>0.91 | 0.20<br>0.27         | 0.11         |
| 74                   | 1.01                     | 0.48                     | 0.45<br>0.35         | 0.85         | 0.27<br>0.21<br>0.26 | 0.11         |
| 75<br>76             | 1.21                     | 0.61                     | 0.47                 | 0.90         | 0.30                 | 0.16         |
| 77<br>78             | 1.03                     | 0.46<br>0.48             | 0.33                 | 0.91         | 0.17<br>0.19         | 0.09         |
| 7 <b>9</b>           | 1.01                     | 0.49                     | 0.36                 | 0.93<br>0.84 | 0.22<br>0.22         | 0.12         |
| 80                   | 1.03                     | V. JV                    | V. J/                | V. 07        | V. 4.                |              |

| Yr   | Majo<br>Pera<br>Nean   | or Compone<br>Building:<br>Shev  |   | acesent<br>Tesp<br>Hean                                     | Buildings<br>SDev   | 90I<br>+/-  |
|--|--|--|---|---|---|---|
| 123456789011234567890123222222222233333333333333444456789012345678901234567890 | 0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.00<br>0.16<br>0.16 | 0.00<br>0.00<br>0.00<br>0.1333333365<br>0.12365<br>0.13313365<br>0.13313365<br>0.13313365<br>0.13313365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.1331365<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0.133136<br>0 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|

| Yr                         |              | Maintena<br>uildings<br>SDev | 901<br>+/-   | Temp In<br>Hean       | uildings<br>SDev     | 901<br>+/-           |
|----------------------------|--------------|------------------------------|--------------|-----------------------|----------------------|----------------------|
| i                          | 0.13<br>0.85 | 0.09<br>0.42                 | 0.06         | 0.16<br>0.64          | 0.10<br>0.16         | 0.05                 |
| 2<br>3<br>4                | 0.91         | 0.45                         | 0.33         | 0.48                  | 0.16                 | 0.09                 |
| 4<br>5                     | 0.91<br>1.12 | 0.44<br>0.57                 | 0.32         | 0.73<br>0.82          | 0.19<br>0.34         | 0.10<br>0.19         |
| 67                         | 1.00         | 0.48                         | 0.35         | 0.80                  | 0.22<br>0.20         | 0.12                 |
| 8                          | 1.06         | 0.52<br>0.69                 | 0.50         | 0.95                  | 0.21                 | 0.12                 |
| 9<br>10                    | 1.60         | 0.79<br>1.20                 | 0.58<br>0.88 | 1.29<br>0.87          | 0.36<br>0.21         | 0.20<br>0.11         |
| 11                         | 1.77         | 0.57                         | 0.42         | 1.22                  | 0.32                 | 0.18                 |
| 12<br>13                   | 1.25<br>1.45 | 0.57<br>0.74                 | 0.42<br>0.54 | 1.09                  | 0.27<br>0.50         | 0.15<br>0.27         |
| 14<br>15                   | 1.97         | 1.30                         | 0.95<br>0.98 | 0.92                  | 0.28<br>0.47         | 0.15<br>0.25         |
| 16                         | 1.80         | 0.91                         | 0.67         | 1.55                  | 0.47                 | 0.26                 |
| 17<br>18                   | 1.85         | 0.94<br>0.58                 | 0.69         | 1.28<br>1.20          | 0.38<br>0.53         | 0.21<br>0.29         |
| 19                         | 3.14         | 1.86                         | 1.36         | 1.36                  | 0.44<br>0.46         | 0.24                 |
| 20<br>21                   | 1.48         | 0.70<br>0.76                 | 0.56         | 2.20                  | 0.71                 | 0.25<br>0.38         |
| 22<br>23<br>24<br>25       | 1.19         | 0.54<br>0.88                 | 0.39         | 1.23                  | 0.27<br>0.24         | 0.15<br>0.13         |
| 24                         | 1.46         | 0.77                         | 0.56         | 1.06                  | 0.29                 | 0.16                 |
| 25<br>26                   | 2.33<br>2.29 | 1.39                         | 1.02<br>0.81 | 1.20<br>1.55          | 0.43                 | 0.24                 |
| 26<br>27<br>28<br>29<br>30 | 2.47         | 1.74                         | 1.28         | 1.39                  | 0.61                 | 0.33                 |
| 28<br>29                   | 1.25<br>4.62 | 0.60<br>4.17                 | 3.06         | 2.13                  | 1.85                 | 1.01                 |
| 30<br>31                   | 3.07<br>4.95 | 1.83<br>3.45                 | 1.34<br>2.53 | 1.14                  | 0.38<br>4.01         | 0.21                 |
| 32<br>33                   | 1.59         | 0.85                         | 0.62         | 1.52                  | 0.81                 | 0.44                 |
| 34                         | 1.36         | 0.98<br>0.67                 | 0.72         | 1.60<br>1.55          | 1.05                 | 0.57                 |
| 35<br>36                   | 1.39<br>1.33 | 0.76<br>0.64                 | 0.56<br>0.47 | 1.02<br>1.56          | 0.24                 | 0.13                 |
| 37                         | 2.16         | 1.19                         | 0.87         | 1.19                  | 0.49                 | 0.27                 |
| 38<br>39                   | 3.08<br>1.35 | 2.18<br>0.64                 | 1.60         | 1.38<br>1.46          | 0.36                 | 0.25                 |
| 40                         | 2.35         | 1.36                         | 1.00<br>0.84 | 1.62                  | 0. <b>84</b><br>0.62 | 0.46<br>0.34         |
| 41<br>42                   | 3.26<br>1.42 | 0.47                         | 0.35         | 2.09                  | 1.74                 | 0.95                 |
| 43<br>44                   | 1.44         | 0.82                         | 0.40         | 1.38<br>1.08          | 0.44<br>0.40         | 0.24                 |
| 45                         | 1.71         | 0.94                         | 0.69         | 1.16                  | 0.38<br>0.35         | 0.20                 |
| 46<br>47                   | 1.66         | 0.84<br>1.37                 | 1.00         | 1.46                  | 0.53                 | 0.29                 |
| 48<br>49                   | 1.41<br>2.78 | 0.71<br>1.51                 | 0.52<br>1.11 | 1.10<br>1.46          | 0.32<br>0.35         | 0.17                 |
| 50                         | 1.53         | 0.78                         | 0.57         | 1.20                  | 0.22                 | 0.12                 |
| 51<br>52                   | 2.65<br>1.97 | 1.24<br>0.81                 | 0.91<br>0.60 | 1.59                  | 0.27                 | 0.15                 |
| 52<br>53<br>54             | 2.74<br>2.02 | 1.99<br>1.22                 | 1.46         | 1.41                  | 0.42<br>0.24         | 0.23                 |
| 54<br>55                   | 2.83         | 1.67                         | 1.22         | 2.02                  | 0.79                 | 0.43                 |
| 56<br>57                   | 1.80<br>4.03 | 0.79<br>4.30                 | 0.58<br>3.15 | 1. <b>5</b> 2<br>2.45 | 0.57<br>1.71         | 0.31                 |
| 58<br>59                   | 1.32<br>2.48 | 0.45<br>1.23                 | 0.48<br>0.90 | 1.88                  | 0.88<br>0.43         | 0.48                 |
| 60                         | 1.59         | 0.81                         | 0.59<br>4.16 | 1.38                  | 0.40                 | 0.23                 |
| 61<br>62                   | 5.90<br>1.47 | 5.68<br>0.50                 | 0.36         | 2.89<br>2.06          | 5.22<br>1.62         | 2.85<br>0.88         |
| 63                         | 1.19         | 0.61                         | 0.45         | 2.17<br>1.40          | 0.43                 | 0.34<br>0.32         |
| 64<br>65                   | 2.90<br>1.76 | 1.93                         | 0.68         | 2.75                  | 0.59<br>2.12         | 1.16                 |
| 66<br>67                   | 2.26<br>1.53 | 1.40<br>0.82                 | 0.60         | 1.01                  | 0.2/                 | 0.15                 |
| 68                         | 1.44         | 0.70                         | 0.52         | 1.09                  | 1.03<br>0.23<br>0.59 | 0.56<br>0.12<br>0.32 |
| 69<br>70                   | 2.45<br>1.30 | 0.64                         | 0.47         | 1.40                  | 0.42                 | 0.23                 |
| 71<br>72                   | 3.44<br>1.36 | 1.41                         | 1.03         | 1.54                  | 0.57<br>0.40         | 0.23<br>0.31<br>0.22 |
| 73<br>74                   | 3.43<br>1.74 | 1.82                         | 1.33         | 1.97                  | 0.73                 | 0.40                 |
| 75                         | 1.75         | 1.25                         | 0.92         | 2.53                  | 1.86                 | 1.02                 |
| 76<br>77                   | 4.16<br>1.68 | 2.45<br>0.91                 | 1.80         | 1.86<br>1.68          | 2.47<br>0.75         | 1.35                 |
| 78<br>79                   | 1.81         | 0.34                         | 0.25         | 1.80                  | 0.72                 | 0.39                 |
| 80                         | 2.74<br>1.59 | 0.80                         | 1.20<br>0.59 | 1.29                  | 0.32                 | 0.17                 |

| Annual<br>Yr   |   | ed Mainte<br>Maildings<br>SBev  | mance<br>90I<br>+/-  |
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| Yr   |                               | Require<br>Distance<br>SDEV | d Maint<br>901<br>+/- | enance<br>Teop<br>Mean | Buildings<br>SDev                    | 90I<br>+/-   |
|--|-------------------------------|-----------------------------|-----------------------|------------------------|--------------------------------------|--------------|
| 1  | 0.12                          | 0.11                        | 0.02                  | 0.12                   | 0.0 <del>9</del><br>0.20             | 0.0i<br>0.02 |
| 1 2 3 4  | 0.44                          | 0.26<br>0.26                | 0.03                  | 0.31                   | 0.21                                 | 0.03         |
| 4<br>5   | 0.49<br>0.50                  | 0.28<br>0.27                | 0.04                  | 0.35                   | 0.21<br>0.21                         | 0.03         |
| 5 6 7  | 0.54<br>0.55                  | 0.30<br>0.30                | 0.04                  | 0.40                   | 0.22                                 | 0.03         |
| B<br>9   | 0.55<br>0.70                  | 0.30<br>0.32                | 0.04                  | 0.41                   | 0.23                                 | 0.03         |
| 10   | 0.57                          | 0.31<br>0.35                | 0.04                  | 0.47                   | 0.21<br>0.21                         | 0.03         |
| 11<br>12   | 0.59                          | 0.35<br>0.29                | 0.05                  | 0.50<br>0.50           | 0.20<br>0.21<br>0.21                 | 0.03         |
| 13<br>14   | 0.57<br>0.58                  | 0.29<br>0.34<br>0.31        | 0.05<br>0.04          | 0.44                   | 0.21<br>0.25                         | 0.03         |
| 15   | 0.61                          | 0.33                        | 0.04                  | 0.46                   | 0.25<br>0.26                         | 0.03         |
| 16<br>17   | 0.67<br>0.70                  | 0.33<br>0.31<br>12.0        | 0.04                  | 0.41                   | 0.24                                 | 0.03         |
| 18<br>19   | 0.54<br>0.71                  | 0.31<br>0.32                | 0.04                  | 0.40<br>0.49           | 0.24<br>0.24                         | 0.03         |
| 20   | 0.59                          | 0.32<br>0.44                | 0.04                  | 0.53<br>0.49           | 0.24<br>0.25                         | 0.03         |
| 22   | 0.56                          | 0.30                        | 0.04                  | 0.50                   | 0.2.<br>0.24                         | 0.03         |
| 23<br>24   | 0.58<br>0.61                  | 0.28<br>0.34                | 0.04                  | 0.46                   | 6.20                                 | 0.03         |
| 25<br>26   | 0.70                          | 0.33<br>0.54                | 0.05                  | 0.47                   | 0.23<br>0.25                         | 0.03         |
| 20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29 | 0.58                          | 0.31<br>0.34                | 0.04                  | 0.45                   | 0.24<br>0.26                         | 0.03         |
| 29   | 0.57                          | 0.31                        | 0.04                  | 0.48                   | 0.22                                 | 0.03         |
| 30<br>31   | 0.57<br>0.68                  | 0.33<br>0.31                | 0.04                  | 0.49<br>0.45           | 0.23<br>0.22                         | 0.03         |
| 31<br>32<br>33   | 0.58<br>0.70                  | 0.30                        | 0.04                  | 0.47                   | 0.23<br>0.24                         | 0.03<br>0.03 |
| 34<br>35   | 0.63                          | 0.28                        | 0.04                  | 0.46                   | 0.24<br>0.21                         | 0.03         |
| 2 <b>9</b><br>22   | 0.54<br>0.53                  | 0.30<br>0.31                | 0.04                  | 0.43                   | 0.22                                 | 0.03         |
| 37<br>38   | 0.55<br>0.61                  | 0.30<br>0.32                | 0.04                  | 0.45<br>0.43           | 0.23<br>0.24                         | 0.03<br>0.03 |
| 39<br>40   | 0.53<br>0.56                  | 0.29                        | 0.04                  | 0.44                   | 0.22                                 | 0.03         |
| 41   | 0.73                          | 0.40                        | 0.05                  | 0.46                   | 0.24<br>0.23                         | 0.03         |
| 42<br>43   | 0.54<br>0.57                  | 0.2 <del>9</del><br>0.31    | 0.04                  | 0.47                   | 0.24                                 | 0.03         |
| 44<br>45   | 0.54<br>0.61                  | 0.30                        | 0.04                  | 0.43<br>0.42           | 0.25<br>0.24                         | 0.03         |
| 46<br>47   | 0.73                          | 0.35                        | 0.05                  | 0.44                   | 0.23<br>0.23                         | 0.03         |
| 48   | 0.67                          | 0.33<br>0.32                | 0.04                  | 0.47                   | 0.23                                 | 0.03         |
| 49<br>50   | 0.73<br>0. <b>56</b>          | 0.34<br>0.31                | 0.05<br>0.04          | 0.52<br>0.51           | 0.20<br>0.21                         | 0.02         |
| 51<br>52   | 0.92                          | 0.56<br>0.40                | 0.08<br>0.05          | 0.51                   | 0.24<br>0.23                         | 0.03<br>0.03 |
| 53<br>54   | 0.58<br>0.55                  | 0.31                        | 0.04                  | 0.44                   | 0.24<br>0.23                         | 0.03         |
| 55   | 0.58                          | 0.33                        | 0.05                  | 0.48                   | 0.23<br>0.24                         | 0.03         |
| 56<br>57   | 0.63<br>0.72                  | 0.32<br>0.33                | 0.04<br>0.04          | 0.43                   | 0.2/                                 | 0.03         |
| 58<br>59   | 0.55<br>0.56                  | 0.32<br>0.30                | 0.04                  | 0.42                   | 0.25<br>0.23                         | 0.03         |
| 60<br>61   | 0.55<br>0.70                  | 0.32                        | 0.04                  | 0.45<br>0.42           | 0.23<br>0.23<br>0.22                 | 0.03         |
| 62   | 0.57                          | 0.39<br>0.28                | 0.04                  | 0.43                   | 0.22<br>0.24                         | 0.03         |
| 63<br>64   | 0.53<br>0.54                  | 0 31<br>0.31                | 0.04                  | 0.41<br>0.42<br>0.42   | 0.25<br>0.24<br>0.25                 | 0.03         |
| ბ5<br>ბ <b>ბ</b>   | 0.54<br>0.70<br>0.57          | 0.31<br>0.30<br>0.32        | 0.04                  | 0.42                   | 0.25<br>0.25                         | 0.03<br>0.03 |
| 67   | 0.58<br>(.56                  | 0.30<br>0.29                | 0.04                  | 0.44                   | 0.25<br>0.24<br>0.23                 | 0.03         |
| 68<br>69   | 0.56                          | 0.32                        | 0.04                  | 0.44                   | V. ZZ                                | 0.03         |
| 70<br>71   | 0.56<br>0.55<br>0.71          | 0.32<br>0.31<br>0.39        | 0.04<br>0.05          | 0.49<br>0.51<br>0.49   | 0.23<br>0.22                         | 0.03         |
| 71<br>72<br>73   | 0.55<br>6.73                  | 0.29                        | 0.04                  | 0.48                   | 0.22<br>0.22                         | 0.03<br>0.03 |
| 74<br>75   | 0.57                          | 0.31<br>0.32<br>0.37        | 0.04                  | 0.45                   | 0.22<br>0.22<br>0.22<br>0.21<br>0.21 | 0.03         |
| 76   | 0.68<br>0.68                  | 0.37                        | 0.05                  | 0.44                   | W- 73                                | 0.03         |
| 77<br>7 <b>8</b>   | 0.55<br>0.57<br>0.55          | 0.33                        | 0.04                  | 0.41                   | 0.24                                 | 0.03         |
| 79<br>80   | 0 <b>.55</b><br>0 <b>.5</b> 7 | 0.30<br>0.3 <b>0</b>        | 0.04                  | 0.46                   | 0.22<br>0.24<br>0.20<br>0.20         | 0.03         |

| Yr  |  | r Componer<br>Buildings<br>SDev                | nt Resl:<br>901<br>+/-   | rceaent<br>Teap<br>Meas                                      | Buildings<br>SDev  | 901<br>+/-   |
|---|--|--|--|--|--|--|
| 1234567890112345678901123222222222222222233333333333444444444 | 0.00<br>0.00<br>0.00<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01 | 0000372691000000000000000000000000000000000000 | 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| Yr  |   | al Mainte<br>Building<br>SDev  |  | Teap<br>Mean  | Building:<br>SDev                    | s 901<br>+/-  |
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| 1234567890112345678901223456789012334567890123445678901234567890<br>123456789011234567890123456789012334567890123345678901234567890 | 0.444<br>0.450<br>0.555<br>0.653<br>0.776<br>0.00<br>0.555<br>0.776<br>0.00<br>0.776<br>0.00<br>0.776<br>0.00<br>0.776<br>0.00<br>0.776<br>0.00<br>0.776<br>0.00<br>0.776<br>0.00<br>0.00 | 0.2293101.4490.3391.200.00.0.4545451330.3392.4690.779450.3391.4690.799450.3391.490.3490.3490.3490.3490.3490.3490.3490. | 0.03<br>0.04<br>0.04<br>0.04<br>0.05<br>0.06<br>0.07<br>0.07<br>0.07<br>0.07<br>0.08<br>0.07<br>0.07<br>0.08<br>0.07<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09<br>0.09 | 0.291.33703.3700.00.00.00.00.00.00.00.00.00.00.00.00. | 0.49<br>0.60<br>0.67<br>0.47<br>0.46 | 0.03333344537775986467866533343777759864678665333334350435766786653333435043576678665333435043576678665333435777759866786653333333435377775986678666653333333350435766786666533333335043576678667866665333504357667866665333504357667866665333504357667866665335043577775986678666665335043577775986678666653350435777775986678667866665335043577775986678666665335043577775986678666665350666653506666535066666535066666535066666666 |

| Yr   |                      | d Reguir<br>Wildings<br>SDev  | ed Maint<br>902<br>+/-  | enance<br>Teap<br>Hean   | Buildings<br>SDev    | 90I<br>+/-                              |
|--|----------------------|---|---|--|----------------------|---|
| 1234567890112345678901123222222222233333333333334567890123456789012345666666666666666666666666666666666666 | Perm 3               | ui S 0.244311327379444041157760822463360327877000000000000000000000000000000000 | 901 - 0.17777777218111127 - 0.1777777777777777777777777777777777777 | Temp 0.01235000.00.134000.00.13500.00.13500.00.13500.00.13500.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.135000.00.13500.00.13500.00.13500.00.13500.00.13500.00.13500.00.1350 | SDev                 | + 0.00000000000000000000000000000000000 |
| 63<br>64   | 1.69                 | 1.09  | 0.80<br>0.14  | 0.15   | 0.00<br>0.00         | 0.00                                    |
| 78<br>79<br>80   | 2.13<br>1.00<br>1.10 | 1.17<br>0.28<br>0.30  | 0.86<br>0.20<br>0.22  | 0.13<br>0.15<br>0.19   | 0.00<br>0.00<br>0.00 | 0.00                                    |

| v | <u> </u>  | era Ruil                                 |   | OZ Te   | es Buil                                  |  |
|---|---|--|---|---|--|--|
|   | 1 0,2 0,3 0,4 0,5 0,5 0,5 0,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1 | 23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dev + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 7- 17 0.<br>17 0.<br>17 0.<br>17 0.<br>17 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0.<br>18 0. | 988 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |

|                | Annual Required Maintenance |                      |                                      |                      |                              |                              |  |
|----------------|-----------------------------|----------------------|--------------------------------------|----------------------|------------------------------|------------------------------|--|
| Yr             | Perm B<br>Mean              | SDev                 | 901<br>+/-                           | Temm B<br>Mean       | uildings<br>SDev             | 90I<br>+/-                   |  |
| 1              | 0.07                        | 0.01                 | 0.01<br>0.26                         | 0.15<br>0.55         | 0.07<br>0.32                 | 0.04                         |  |
| 2<br>3         | 0.44                        | 0.16                 | 0.27                                 | 0.59                 | 0.33<br>0.34                 | 0.18                         |  |
| 4<br>5         | 0.49                        | 0.17<br>0.18         | 0.29                                 | 0.77                 | 0.41                         | 0.22                         |  |
| 6<br>7         | 0.53<br>0.53                | 0.19<br>0.18         | 0.31                                 | 0.73<br>0.82         | 0.38<br>0.30                 | 0.21                         |  |
| 8<br>9         | 0.57                        | 0.22                 | 0.38<br>0.32                         | 0.87<br>1.01         | 0.38<br>0.38                 | 0.21<br>0.21<br>0.22         |  |
| 10<br>11       | 0.63                        | 0.18<br>0.12         | 0.31<br>0.20                         | 1.03                 | 0.41<br>0.44                 | 0.22                         |  |
| 12<br>13       | 0.63<br>0.86                | 0.15<br>0.16         | 0.26<br>0.27                         | 0.96<br>0.94         | 0.40<br>0.50                 | 0.24<br>0.22<br>0.27         |  |
| 14<br>15       | 0.57                        | 0.16                 | 0.27<br>0.27<br>0.30                 | 0.94<br>0.93         | 0.31<br>0.43                 | 0.17<br>0.24<br>0.23         |  |
| 16<br>17       | 1.65                        | 0.34<br>0.18         | 0.57                                 | 0.93<br>0.84         | 0.42<br>0.33                 | 0.23                         |  |
| 18             | 0.54                        | 0.21                 | 0.35<br>0.30                         | 0.79<br>0.91         | 0.35<br>0.34                 | 0.19                         |  |
| 19<br>20       | 0.62                        | 0.18<br>0.24         | 0.30                                 | 1.02                 | 0.45<br>0.61                 | 0.24                         |  |
| 21<br>22<br>23 | 0.59                        | 0.20                 | 0.34                                 | 0.98<br>0.91         | 0.38<br>0.41                 | 0.20<br>0.22                 |  |
| 23<br>24<br>25 | 0.54                        | 0.18<br>0.01         | 0.01                                 | 1.05                 | 0.39                         | 0.21                         |  |
| 25<br>26<br>27 | 0.61<br>0.88                | 0.15<br>0.17         | 0.26                                 | 0.97<br>0.96         | 0.53<br>0.49                 | 0.29<br>0.27<br>0.21         |  |
| 28             | 0.55                        | 0.22                 | 0.37<br>0.32                         | 0.84<br>0.87         | 0.38<br>0.38<br>0.32         | 0.20                         |  |
| 29<br>30       | 0.62<br>0.57                | 0.25<br>0.18         | 0.42<br>0.30                         | 1.00<br>0.91         | 0.39                         | 0.17                         |  |
| 31             | 1.89                        | 0.36<br>0.16         | 0.61<br>0.26                         | 0.97<br>0.90         | 0.32                         | 0.17<br>0.22                 |  |
| 32<br>33<br>34 | 0.61                        | 0.18                 | 0.31                                 | 0.91<br>0.82         | 0.38<br>0.41                 | 0.21                         |  |
| 35<br>36       | 0.57                        | 0.14                 | 0.23<br>0.27                         | 0.86                 | 0.32<br>0.44                 | 0.18                         |  |
| 37<br>38       | 0.58<br>0.77                | 0.13                 | 0.21                                 | 0.90<br>0.98         | 0.46                         | 0.25                         |  |
| 39             | 0.52<br>0.52                | 0.17<br>0.17         | 0.29<br>0.28                         | 0.73<br>0.84         | 0.34<br>0.32                 | 0.19                         |  |
| 40<br>41       | 0.80                        | 0.06                 | 0.11                                 | 0.91                 | 0.49                         | 0.38                         |  |
| 42<br>43       | 0.60                        | 0.35<br>0.21         | 0.35                                 | 0.78<br>0.93         | 0.41                         | 0.22                         |  |
| 44<br>45       | 0.57<br>0.57                | 0.16                 | 0.26<br>0.36                         | 0.94                 | 0.31                         | 0.17                         |  |
| 46<br>47       | 1.66                        | 0.36                 | 0.61<br>0.47                         | 0.89<br>0.82         | 0.42<br>0.31                 | 0.23                         |  |
| 48<br>49       | 0.83                        | 0.04<br>0.23         | 0.07<br>9.3 <b>8</b>                 | 0. <b>89</b><br>0.97 | 0.33                         | 0.18                         |  |
| 50<br>51       | 0.58<br>1.05                | 0.15<br>0.04         | 0.25<br>0.07                         | 1.00                 | 0. <b>40</b><br>0. <b>48</b> | 0.22                         |  |
| 52<br>53       | 0.66                        | 0.27<br>0.13         | 0.46                                 | 1.05                 | 0.43<br>0.38                 | 0.24<br>0.21                 |  |
| 54<br>55       | 0.60                        | 0.16                 | 0.27                                 | 0.87<br>0.99         | 0.35<br>0.44                 | 0.19                         |  |
| 56<br>57       | 0.63                        | 0.18                 | 0.31                                 | 0.99<br>0.81         | 0.43<br>0.35                 | 0.24<br>0.24<br>0.19         |  |
| 58<br>59       | 0.58<br>0.55                | 0.28<br>0.20         | 0.47<br>0.33<br>0.29                 | 0.92<br>0.92         | 0.32<br>0.34                 | 0.17                         |  |
| 60             | 0.60                        | 0.17<br>0.42         | 0.29                                 | 0.96                 | 0.40                         | 0.18<br>0.22<br>0.38         |  |
| 61<br>62       | 0.63                        | 0.28                 | 0.46                                 | 0.94                 | 0.70<br>0.37<br>0.39         | 0.38<br>0.20<br>0.21         |  |
| 63<br>64       | 0.62                        | 0.08<br>0.17<br>0.20 | 0.29                                 | 0.93                 | 0.40<br>0.37                 | 0.22                         |  |
| 65<br>66       | 0.62                        | 0.14                 | 0.29<br>0.34<br>0.24                 | 0.94                 | 0.42                         | 0.22<br>0.20<br>0.23<br>0.20 |  |
| 67<br>68       | 0.58<br>0.55<br>0.58        | 0.21<br>0.20<br>0.20 | 0.35                                 | 0.90                 | 0.36<br>0.35                 | 0.19                         |  |
| 69<br>70       | 0.58<br>0.55<br>1.06        | 0.20                 | 0.35<br>0.34<br>0.33<br>0.34<br>0.09 | 0.87<br>0.85         | 0.3 <b>8</b>                 | 0.17                         |  |
| 71<br>72<br>73 | 0.60                        | 0.05<br>0.16         | V. 4/                                | 0.92<br>0.87         | 0.56<br>0.36                 | 0.31                         |  |
| 74             | 0.40                        | 0.15<br>0.17         | 0.25<br>0.29                         | 1.02                 | 0.42<br>0.42                 | 13 / (                       |  |
| 75<br>76       | 0.58<br>0.76<br>1.68        | 0.03<br>0.35         | 0.06<br>0.59                         | 0.84<br>0.92         | 0.42<br>0.40                 | 0.23<br>0.23<br>0.22         |  |
| 77<br>78       | 0.54                        | 0.24                 | 0.41                                 | 0.93                 | 0.35<br>0.37                 | 0.19                         |  |
| 79<br>80       | 0.55<br>0.56                | 0.15<br>0.22         | 0.38<br>0.25<br>0.37                 | 0.80                 | 0.33                         | 0.19                         |  |

| •  |  |  |  |   |                   |  |
|--|--|--|--|---|-------------------|--|
| Yr   |  | Pullding<br>SDev   |  |   | Buildings<br>SDev | 90I<br>+/-                             |
| 2345678901123456789012222222222333333333333444456789012345678901200000000000000000000000000000000000 | 0.00<br>0.00<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02 | 0.00<br>0.00<br>0.00<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01 | 0.00<br>0.00<br>0.01<br>0.00<br>0.01<br>0.01<br>0.01<br>0.01 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.88              | 0.000000000000000000000000000000000000 |

51010

|   | Total Mair             |   | •.  | No. 2 9 41 1   | _ #4=   |
|---|------------------------|---|---|--|---|
| Yr I  | era Builds<br>lean SDe |   | Hean  | Building<br>SDev   | \$ 90I<br>+/-   |
| 2 3 4 9 9 1 1 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 | 83                     | 6 6 7 2 9 9 9 1 4 7 2 6 0 0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 | 0.0.7.7.7.3.2.1.1.1.1.2.1.3.4.6.4.6.4.0.0.0.0.1.1.1.1.1.2.1.3.8.7.7.7.3.2.1.3.4.6.5.9.0.0.0.1.1.1.1.1.2.1.3.6.5.7.7.7.3.2.1.3.8.7.7.7.3.2.1.3.3.3.4.6.4.6.3.3.7.7.8.1.3.3.7.7.8.1.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3 | 0.64<br>1.76<br>0.62<br>2.50<br>1.12<br>0.67<br>0.98<br>0.47<br>0.48<br>0.51<br>1.02<br>1.15<br>1.28<br>0.61<br>0.61<br>0.61<br>0.61<br>0.66<br>0.66<br>0.66<br>0.66 | 0.017219380910.2219571523171643280910.05.33775344992314453300.05.3377534499231661745332617632617676767676767676767676767676767676767 |

|   |  | l Requir  |  | enance  | Rui l di nee  | 907   |
|---|--|---|--|---|---|---|
| Yr  | Hean   | Spev  | +/-  | Hean  | SDev  | +/-   |
| 1234567890112345678901232222222333333333333441234456789051  | Pera 0 0 1 1 1 2 2 2 3 3 7 4 4 9 8 2 2 3 3 7 4 4 9 9 5 4 4 9 9 5 7 8 1 1 1 1 2 3 7 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | buildings  0.10 0.11 0.10 0.11 0.10 0.12 0.13 0.10 0.09 0.21 0.08 0.157 0.12 0.16 0.17 0.12 0.40 0.24 0.13 0.17 0.10 0.27 0.10 0.27 0.10 0.27 0.15 0.16 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 | 901<br>902<br>903<br>904<br>905<br>906<br>907<br>908<br>908<br>908<br>909<br>909<br>909<br>909<br>909        | Team Mean 0.30 0.87 1.26 1.37 1.26 1.37 1.50 1.44 1.95 1.37 1.50 1.41 1.39 1.39 1.39 1.39 1.39 1.39 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 | 0.00  | 0.000   |
| 3345<br>335<br>337<br>339<br>339<br>41<br>444<br>447<br>449<br>45<br>55<br>55<br>55<br>55<br>55<br>55<br>66<br>67<br>67<br>77<br>77<br>77<br>77<br>77 | 1.52<br>1.45<br>1.45<br>1.45<br>1.45<br>1.45<br>1.45<br>1.47<br>1.52<br>1.47<br>1.53<br>1.47<br>1.53<br>1.47<br>1.53<br>1.47<br>1.53<br>1.47<br>1.53<br>1.47<br>1.53<br>1.47<br>1.53<br>1.47<br>1.53<br>1.47<br>1.53<br>1.53<br>1.53<br>1.53<br>1.53<br>1.53<br>1.53<br>1.53 | 0.22<br>0.07<br>0.15<br>0.16<br>0.15<br>0.10<br>0.13<br>0.13<br>0.22<br>0.12<br>0.12<br>0.22<br>0.12  | 0.15<br>0.05<br>0.10<br>0.10<br>0.10<br>0.06<br>0.10<br>0.07<br>0.24<br>0.08<br>0.15<br>0.08<br>0.15<br>0.08 | 1.35<br>1.25<br>1.43<br>1.39<br>1.31<br>1.43<br>2.069<br>1.39<br>1.30<br>1.30<br>1.30<br>1.44<br>1.21<br>1.83<br>1.35                       | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 |
| 78 1<br>79 1  | .55<br>.33<br>.23<br>.24<br>.24  | 0.24<br>0.10<br>0.11<br>0.08<br>0.19  | 0.16<br>0.06<br>0.07<br>0.04<br>0.13   | 1.28<br>1.48<br>1.18<br>1.24  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00                        | 0.00<br>0.00<br>0.00<br>0.00                                |

| Yr  | Ma<br>Peri<br>Meai  | e Dulsi  | ngs 902  | iacement<br>Temp<br>Mean   | Building                               | 90Z                                    |
|---|---|--|--|--|--|--|
| 12345678901123456789012322223333333333333333333333333333333 | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000 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0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.1.318<br>0.260<br>0.270<br>0.33<br>0.270<br>0.33<br>0.31<br>0.326<br>0.329<br>0.33<br>0.347<br>0.33<br>0.347<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.329<br>1.30<br>0.30<br>0.30<br>0.30<br>0.30<br>0.30<br>0.30<br>0.30 | 0.000000000000000000000000000000000000 | 00100100000000000000000000000000000000 |

| Yr                         | Total<br>Perm B<br>Mean                      | Maintena<br>uildings<br>SDev | nce<br>901<br>+/-        | Teap<br>Hean | Building_<br>SDev | 90I<br>+/-   |
|----------------------------|--|------------------------------|--------------------------|--------------|-------------------|--------------|
| i                          | 0.20   | 0.10                         | 0.07                     | 0.30<br>0.87 | 0.00              | 0.00         |
| 2<br>3                     | 0.90<br>1.03                                 | 0.11<br>0.11                 | 0.07<br>0.07             | 1.07         | 0.00              | 0.00         |
| 4<br>5                     | 1.11   | 0.11<br>0.23                 | 0.07<br>0.15             | 1.26         | 0.00<br>0.00      | 0.00         |
| 5<br>7                     | 1.22   | 0.11                         | 0.07                     | 1.26         | 0.00              | 0.00         |
| 7<br>8                     | 1.21   | 0.13<br>0.28                 | 0.09                     | 1.35         | 0.00<br>0.00      | 0.00         |
| 9                          | 2.1B   | 0.43                         | 0.29                     | 1.59         | 0.00              | 0.00         |
| 10<br>11                   | 1.70<br>2.08                                 | 0.0 <b>8</b><br>0.27         | 0.05<br>0.18             | 1.55         | 0.00<br>0.00      | 0.00         |
| 12                         | 1.97   | 0.14                         | 0.09                     | 1.67         | 0.00              | 0.00         |
| 13<br>14                   | 2.66<br>1.89                                 | 0.73<br>0.70                 | 0.49                     | 2.65<br>1.38 | 0.00<br>0.00      | 0.00         |
| 15                         | 3.39   | 1.55                         | 1.04                     | 1.90         | 0.0 <b>0</b>      | 0.00         |
| 16<br>17                   | 2.52<br>2.74                                 | 0.62<br>0.87                 | 0.42<br>0.59             | 3.08<br>1.44 | 0.00<br>0.00      | 0.00<br>0.00 |
| 18                         | 1.88   | 0.28                         | 0.19                     | 2.16         | 0.00              | 0.00         |
| 19                         | 3.50   | 1.74                         | 1.17                     | 5.35         | 0.00<br>0.00      | 0.00         |
| 20<br>21<br>22<br>23       | 3.28<br>3.12                                 | ů.7 <b>5</b>                 | 0.51                     | 1.76         | 0.00              | 0.00         |
| 22<br>23                   | 2.50   | 0.13                         | 0.0 <del>9</del><br>0.21 | 2.49<br>3.01 | 0.00<br>0.00      | 0.00         |
| 24                         | 2.09   | 0.51                         | 0.34                     | 1.74         | 0.00              | 0.00         |
| 25                         | 2.40   | 0.67<br>0.41                 | 0.45<br>0.27             | 1.69         | 0.00<br>0.00      | 0.00         |
| 25<br>26<br>27<br>28<br>29 | 2.40<br>2.41<br>2.55<br>2.85<br>3.56<br>2.82 | 0.73                         | 0.49                     | 1.57         | 0.00              | 0.00         |
| 28<br>29                   | 2.85<br>3.56                                 | 0.45<br>1.79                 | Ú.30<br>1.20             | 3.67<br>6.05 | 0.00<br>0.00      | 0.00         |
| 30                         | 2.82   | 0.83                         | 1.20                     | 3.08         | 0.00              | 0.00         |
| 31<br>32                   | 6.22   | 2.79<br>0.25                 | 1.87<br>0.17             | 5.07<br>1.73 | 0.00<br>0.00      | 0.00<br>0.00 |
| 3 <b>3</b>                 | 2.19<br>3.26<br>2.29                         | 0 <b>.90</b>                 | 0.60                     | 2.56         | 0.00              | 0.00         |
| 34<br>35                   | 2.29<br>1.94                                 | 0.62<br>0.16                 | 0.41                     | 1.61         | 0.00<br>0.00      | 0.00<br>0.00 |
| 36                         | 1.94   | 0.16                         | 0.11                     | 1.90         | 0.00              | 0.00         |
| 37<br>38                   | 3.27<br>2.85                                 | 1.01                         | 0. <b>68</b><br>0.81     | 4.28<br>5.56 | 0.00<br>0.00      | 0.00         |
| 39                         | 2.55<br>4.28                                 | 0.81                         | 0.55                     | 1.69         | 0.00              | 0.00         |
| 40<br>41                   | 4.28<br>4.46                                 | 2.20<br>1.37                 | 1.48                     | 3.37<br>3.14 | 0.00<br>0.00      | 0.00         |
| 42                         | 2 07   | 0.42                         | 0.28                     | 1.70         | 0.00              | 0.00         |
| 43<br>44                   | 2.90<br>2.55<br>2.20<br>2.35                 | 0.88<br>0.94                 | 0.59<br>0.63             | 2.45<br>1.80 | 0.00              | 0.00         |
| 45                         | 2.20   | 0.47                         | 0.32                     | 2.78         | 0.00              | 0.00         |
| 46<br>47                   | 2.19   | 0.43<br>0.28                 | 0.29<br>0.18             | 2.64         | 0.00<br>0.00      | 0.00         |
| 48                         | 2.19   | 0.31                         | 0.21                     | 2.88         | 0.00<br>0.00      | 0.00         |
| 49<br>50                   | 3.42<br>2.34                                 | 1.04                         | 0.70<br>0.28             | 2.08<br>1.89 | 0.00              | 0.00         |
| 51                         | 2.85   | 0.85                         | 0.57                     | 4.26         | 0.00              | 0.00         |
| 52<br>53                   | 2.80   | 1.24                         | 0.83                     | 2.95         | 0.00<br>0.00      | 0.00         |
| 54                         | 2.01   | 0.47                         | 0.32<br>0.40             | 1.44         | 0.00<br>0.00      | 0.00<br>0.00 |
| 55<br>56                   | 3.30<br>2.61                                 | 0.5 <del>9</del><br>1.18     | 0.79                     | 1.73         | 0.00              | 0.00         |
| 57<br>58                   | 4.15<br>3.21                                 | 1.56<br>0.93                 | 1.05                     | 6.88<br>2.51 | 0.00              | 0.00         |
| 59                         | 3 <b>.55</b>                                 | 1.34                         | 0.90                     | 3.93         | 0.00              | 0.0 <b>0</b> |
| 60<br>61                   | 2.76   | 0.76<br>4.21                 | 0.51                     | 2.54<br>4.74 | 0.00              | 0.00         |
| 62<br>63                   | 6.53   | 0.07                         | 0.05                     | 1.82         | 0.00              | 0.00         |
| 63<br>64                   | 2.13   | 0.27<br>0.15                 | 0.18                     | 3.08<br>1.55 | 0.00<br>0.00      | 0.00         |
| 45                         | 3.33   | 0.7 <b>8</b>                 | 0.53<br>0.44             | 1.80         | 0.00              | 0.00         |
| 66<br>67                   | 2.09<br>2.40                                 | 0.85                         | 0.44<br>0.57             | 1.82         | 0.00              | 0.00         |
| 48                         | 2.34   | 0.47<br>0.75                 | 0.32                     | 2.52         | 0.00              | 0.00         |
| 69<br>70                   | 2.34<br>2.51<br>2.53<br>4.32                 | 0.93                         | 0.51                     | 1.89         | 0.00<br>0.00      | 0.00         |
| 71<br>72                   | 4.32   | 1.74                         | 1.17                     | 2.72         | 0.00              | 0.00         |
| 72<br>73                   | 3.66<br>4.57                                 | 0.92<br>0.82                 | 0.62                     | 4.85         | 0.00              | 0.00         |
| 74                         | 3.34   | 1.08                         | 0.73                     | 2.29<br>3.97 | 0.00              | 0.00         |
| 75<br>76                   | 2.66<br>5.57                                 | 1.10<br>3.34                 | 2.24                     | 5.01         | 0.00<br>0.00      | 0.00         |
| 77                         | 2.24<br>3.13                                 | ú <b>.42</b>                 | 0.28<br>0.44             | 1.61         | 0.00              | 0.00         |
| 78<br>79                   | 4.74   | 0.65<br>2.43                 | 1.63                     | 3.34<br>3.18 | 0.00              | 0.00         |
| 80                         | 2.64   | Ů.77                         | 0.52                     | 1.81         | 0.00              | v.00         |

|                                  |                       | Componer             | nt Repi              | acegent              | B.ildina          | 904          |
|----------------------------------|-----------------------|----------------------|----------------------|----------------------|-------------------|--------------|
| Yr                               | Mean                  | SDev<br>SDev         | 90Z<br>+/-           | Hean                 | Buildings<br>SDev | 901<br>+/-   |
| 1                                | 0.00                  | 0.00                 | 0.00                 | 0.00                 | 0.00              | 0.00         |
| 2<br>3<br>4                      | 0.00                  | 0.00                 | 0.00                 | 0.00                 | 0.00              | 0.00         |
| 5                                | 0.02<br>0.11          | 0.06<br>0.17         | 0.04                 | 0.00                 | 0.00<br>0.00      | 0.00         |
| <b>6</b><br>7                    | 0.01                  | 0.01                 | 0.01                 | 0.00                 | 0.00<br>0.00      | 0.00         |
| 8                                | 0.34                  | 0.20                 | 0.14                 | 1.37                 | 0.00              | 0.00         |
| 9<br>10                          | 0.65<br>0.23          | 0.40                 | 0.27                 | 0.18<br>0.18         | 0.00              | 0.00         |
| 11                               | 0.40<br>0.49          | 0.22                 | 0.15<br>0.12         | 0.26<br>0.22<br>0.70 | 0.00<br>0.00      | 0.00         |
| 13                               | 1.12<br>0.60          | 0.61<br>0.69         | 0.41                 | 0.70<br>0.07         | 0.00<br>0.00      | ).00<br>0.00 |
| 15                               | 1.94                  | 1.49                 | 1.00                 | 0.33                 | 0.00              | 0.00         |
| 16<br>17                         | 1.08<br>1.45          | 0.74<br>0.82         | 0.50<br>0.55         | 1.57<br>0.17         | 0.00              | 0.00         |
| 18<br>19                         | 0.40<br>2.19          | 0.30<br>1.67         | 0.20<br>1.12         | 0.83<br>3.90         | 0.00<br>0.00      | 0.00         |
| 20<br>21<br>22                   | 1.89                  | 1.46                 | 0.58                 | 1.29                 | 0.00              | 0.00         |
| 22                               | 1.04                  | 0.23                 | 0.15                 | 1.17                 | 0.00              | 0.00         |
| 23<br>24                         | 0.59<br>0.56          | 0.29<br>0.44         | 0.20<br>0.30         | 1.61                 | 0.00              | 0.00         |
| 25<br>26                         | 0.91<br>0.81          | 0.60                 | 0.40                 | 0.30<br>0.82         | 0.00              | 0.00         |
| 24<br>25<br>26<br>27<br>28<br>29 | 1.30                  | 0.75<br>0.40         | 0.51<br>0.27         | 0.17<br>2.15         | 0.00              | 0.00         |
| 29                               | 2.09                  | 1.56                 | 1.05                 | 4.66                 | 0.00              | 0.00         |
| 30<br>31                         | 1.52<br>4.70          | 0.83<br>2.65         | 0.56<br>1.7 <b>9</b> | 1.55<br>3.72         | 0.00<br>0.00      | 0.00         |
| 32<br>33                         | 0.76<br>1. <b>8</b> 1 | 0.32<br>0.84         | 0.21<br>0.56         | 0.48<br>1.13         | 0.00<br>0.00      | 0.00         |
| 34<br>35                         | 0.95                  | 0.52                 | 0.35                 | 0.33                 | 0.00              | 0.00         |
| 36                               | 0.56<br>0.53          | 0.11                 | 0.07                 | 0.59                 | 0.00              | 0.00         |
| 37<br><b>38</b>                  | 1.93                  | 0.97                 | 0.45                 | 2.85<br>3.50         | 0.00              | 0.00         |
| 39<br>40                         | 1.36<br>3.15          | 0. <b>82</b><br>2.22 | 0.55<br>1.49         | 0.60<br>2.28         | 0.00<br>0.00      | 0.00         |
| 41<br>42                         | 2.93<br>0.95          | 1.11                 | 0.75<br>0.34         | 1.74                 | 0.00              | 0.00         |
| 43                               | 1.49                  | 0.85                 | 0.57                 | 1.35                 | 0.00              | 0.00         |
| 44<br>45                         | 1.25<br>0.73          | 0.41                 | 0.48                 | 0.42<br>1.33         | 0.00              | 0.00         |
| 46<br>47                         | 0.83<br>0.91          | 0.42                 | 0.28<br>0.20         | 1.20                 | 0.00<br>0.00      | 0.00         |
| 48<br>49                         | 0.56                  | 0.21<br>1.02         | 0.14                 | 1.03                 | 0.00<br>0.00      | 0.00<br>0.00 |
| 50                               | ù.87                  | 0.35                 | V. 24                | 0.53<br>2.12         | 0.00              | 0.00         |
| 51<br>52                         | 1.07                  | 0.58<br>0.95         | 0.43                 | 1.11                 | 0.00              | 0.00         |
| 53<br>54                         | 1.66<br>0.71          | 1.20                 | 0.81<br>0.31         | 1.64                 | 0.00<br>0.00      | 0.00         |
| 55<br>56                         | 1.82                  | 0.59                 | 0.40                 | 0.21<br>3.29<br>0.31 | 0.00<br>0.00      | 0.00         |
| 57                               | 2.73                  | 1.41                 | 0.95                 | 5.69                 | 0.00              | 0.00         |
| 58<br>59                         | 1.82<br>2.30          | 1.05                 | 0.71                 | 1.07                 | 0.00              | 0.00         |
| 60<br>61                         | 1.38<br>4.80          | 0.77<br>3.92         | 0.52<br>2.63         | 1.26                 | 0.00<br>0.00      | 0.00         |
| 62<br>63                         | 0.54                  | 0.10                 | 0.07                 | 0.47                 | 0.00<br>0.00      | 0.00         |
| 64                               | 0.44                  | 0.08                 | 0.06                 | 0.30                 | 0.00              | 0.00         |
| 65<br>66                         | 1.91                  | 0.74<br>0.66         | 0.50<br>0.44         | 0.48<br>0.25         | 0.00              | 0.00         |
| 67<br>68                         | 1.07<br>0.98          | 0.79                 | 0.53                 | 0.96                 | 0.00<br>0.00      | 0.00         |
| 69<br>70                         | 1.05<br>1.25          | 0.60                 | 0.40                 | 0.40                 | 0.00              | 0.00         |
| 71                               | 2.60                  | 1.44                 | 0.97                 | 0.85                 | 0.00              | 0.00         |
| 72<br>73                         | 2.27<br>3.07          | 0.94                 | 0.63                 | 1.09                 | 0.00              | 0.00         |
| 74<br>75                         | 2.07<br>1.29          | 0.98                 | 0.66                 | 0.99                 | 0.00              | 0.00         |
| 76<br>77                         | 4.02<br>0.91          | 3.12<br>0.43         | 2.10                 | 2.07<br>3.53<br>0.34 | 0.00<br>0.00      | 0.00         |
| 78<br>79                         | 1.90<br>3.50          | 0.63                 | 0.42                 | 1.86                 | 0.00              | 0.00         |
| 80                               | 1.41                  | 0.84                 | 0.58                 | 0.57                 | 0.00              | 0.00         |

|   |  | ial Regus<br>Building  | 901  |   | <b>B</b> uilding:   |  |
|---|--|--|--|---|---|--|
| Yr<br>1   | <b>Mean</b><br>0.27  | 50ev   | 0.00   | Mean<br>0.25  | 5 <b>Dev</b><br>0.02  | +/-<br>0.02  |
| 2345678901123456789012334567890123345678901233455578901233456789012334567890123456789012334567890123345678901233456789012334567890123345678901233456789012334567890123345678901233456789012333333333333333333333333333333333333 | 0.91<br>0.91<br>0.97<br>1.16<br>1.18<br>1.29<br>1.33<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34<br>1.34 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| 15   |   | or Compone<br>Building:<br>SDev   |  | acement<br>Temp<br>Mean                                     | Buildings<br>SDev  | 901                                    |
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| 12345 67890112345 678901123345 6789012300000000000000000000000000000000000 | 0003233360191910061.1.16189947723378880000000000000000000000000000000 | 0.00<br>0.00<br>0.00<br>0.01<br>0.024<br>0.024<br>0.024<br>0.024<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.025<br>0.02 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0.00<br>0.00<br>0.00<br>0.1217<br>0.1217<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.1219<br>0.12 | 0.000000000000000000000000000000000000 |

| Yr                         |                              | Mainten<br>uildings<br>SDev                   | 901<br>+/-                   | T <del>eo</del> p<br>Hean    | Buildings<br>SDev            | 90I<br>+/-                   |
|----------------------------|------------------------------|---|------------------------------|------------------------------|------------------------------|------------------------------|
| 1<br>2<br>3<br>4           | 0.27<br>0.91<br>1.00<br>1.05 | 0.01<br>0.00<br>0.01                          | 0.00<br>0.00<br>0.00         | 0.25<br>0.87<br>0.89<br>0.98 | 0.02<br>0.08<br>0.07<br>0.07 | 0.02<br>0.06<br>0.05<br>0.05 |
| 5<br>6<br>7                | 1.19<br>1.21<br>1.34         | 0.01<br>0.02<br>0.00<br>0.06                  | 0.00<br>0.01<br>0.00<br>0.03 | 1.04<br>1.08<br>1.19         | 0.05<br>0.09<br>0.10         | 0.04<br>0.06<br>0.07         |
| 8<br>9<br>10               | 1.39<br>1.56<br>1.48         | 0.11<br>0.04<br>0.03                          | 0.06<br>0.02<br>0.02         | 1.51<br>1.51<br>1.69         | 0.29<br>0.19<br>0.33         | 0.22<br>0.14<br>0.24         |
| 11<br>12<br>13             | 1.91<br>2.14<br>2.14         | 0.28<br>0.27<br>0.20                          | 0.14<br>0.14<br>0.10         | 2.23<br>1.68<br>2.16         | 0.33<br>0.22<br>0.29         | 0.24<br>0.16<br>0.21         |
| 14<br>15<br>16             | 2.42<br>2.56<br>1.90         | 0.27<br>0.46<br>0.47                          | 0.14<br>0.24<br>0.24         | 2.03<br>2.44<br>2.30         | 0.36<br>0.35<br>0.43         | 0.27<br>0.25<br>0.32         |
| 17<br>18<br>19             | 2.34<br>1.79<br>2.00         | 0.20<br>0.18<br>0.11                          | 0.10<br>0.09<br>0.06         | 2.08<br>2.23<br>2.93         | 0.50<br>0.74<br>0.31         | 0.37<br>0.54<br>0.23         |
| 20<br>21<br>22<br>23       | 2.40<br>1.58<br>2.05<br>2.93 | 0.18<br>0.01<br>0.18                          | 0.09<br>0.01<br>0.09<br>0.15 | 2.02<br>2.65<br>1.70<br>1.94 | 0.44<br>0.23<br>0.23<br>0.55 | 0.32<br>0.17<br>0.17<br>0.40 |
| 24<br>25<br>26<br>27       | 1.68<br>2.44<br>2.85         | 0.29<br>0.00<br>0.20<br>0.52                  | 9.00<br>0.10<br>0.27         | 2.45<br>2.13<br>2.36         | 0.33<br>0.29<br>0.37         | 0.24<br>0.21<br>0.27         |
| 27<br>28<br>29             | 2.59<br>3.01<br>3.15         | 0.38<br>0.08<br>0.15                          | 0.20<br>0.94<br>0.08         | 1.79<br>2.13<br>2.40         | 0.19<br>0.47<br>0.50         | 0.14<br>0.34<br>0.37         |
| 28<br>29<br>30<br>31<br>32 | 1.99<br>1.91<br>2.75         | 0.12<br>0.17<br>0.14                          | 0.06<br>0.09<br>0.07         | 2.28<br>2.53<br>3.22         | 0.64<br>0.74<br>1.19         | 0.47<br>0.54<br>0.87         |
| 33<br>34<br>35<br>36       | 2.28<br>2.10<br>2.83<br>1.96 | 0.03<br>0.01<br>0.22                          | 0.02<br>0.00<br>0.12         | 2.30<br>2.76<br>2.09<br>2.32 | 0.15<br>0.83<br>0.55<br>0.58 | 0.11<br>0.61<br>0.40<br>0.42 |
| 37<br>38<br>39             | 2.02<br>2.28<br>2.20         | 0.09<br>0.27<br>0.10<br>0.33                  | 0.05<br>0.14<br>0.05<br>0.17 | 2.74<br>2.07<br>2.48         | 0.50<br>0.55<br>0.67         | 0.36<br>0.40<br>0.49         |
| 40<br>41<br>42             | 2.99<br>2.44<br>2.14         | 0.35<br>0.17<br>0.56                          | 0.18<br>0.09<br>0.29         | 2.56<br>3.71<br>2.21<br>2.14 | 0.75<br>0.50<br>0.06         | 0.55<br>0.37<br>0.05         |
| 43<br>44<br>45             | 1.71<br>1.88<br>2.52         | 0.17<br>0.22<br>0.45                          | 0.09<br>0.11<br>0.24         | 1.65                         | 0.43<br>0.24<br>0.46         | 0.33<br>0.18<br>0.31         |
| 46<br>47<br>48<br>49       | 1.75<br>1.86<br>1.77         | 0.08<br>0.27<br>0.00                          | 0.04<br>0.14<br>0.00<br>0.11 | 1.94<br>2.05<br>2.11<br>2.55 | 0.16<br>0.49<br>0.36         | 0.11<br>0.36<br>0.27<br>0.36 |
| 50<br>51<br>52             | 1.93<br>1.98<br>2.69<br>2.44 | 0.22<br>0.11<br>0.79<br>0.25                  | 0.11<br>0.06<br>0.41<br>0.13 | 2.13<br>2.23<br>2.31         | 0.50<br>0.51<br>0.56<br>6.58 | 0.37<br>0.41<br>0.43         |
| 53<br>54<br>55             | 2.71<br>2.78<br>2.89         | 0.48<br>0.32<br>0.43                          | 0.25<br>0.16<br>0.22         | 1.78<br>2.02<br>2.85         | 0.42<br>0.48<br>0.41         | 0.31<br>0.35<br>0.30         |
| 56<br>57<br>58             | 3.02<br>2.69<br>2.60         | 0.14<br>0.54<br>0.19                          | 0.07<br>0.28<br>0.10         | 3.11<br>2.85<br>2.54         | 1.10<br>0.06<br>0.92         | 0.81<br>0.05<br>0.8          |
| 59<br>60<br>61             | 3.41<br>1.89<br>2.14         | 0.12<br>0.03<br>0.13                          | 0.06<br>0.01<br>0.07         | 2.49<br>2.76<br>3.12         | 0.50<br>0.84<br>1.54         | 0.44<br>0.62<br>1.13<br>0.65 |
| 62<br>63<br>64<br>65       | 3.14<br>2.18<br>2.00<br>3.58 | 0.16<br>0.26<br>0.48<br>0.24                  | 0.09<br>0.14<br>0.25<br>0.12 | 2.51<br>1.96<br>2.96<br>2.08 | 0.88<br>0.35<br>0.94<br>0.53 | 0.26                         |
| 66<br>67<br>68             | 2.14<br>2.40<br>3.23         | 0.55<br>0.04<br>0.36                          | 0.28<br>0.02<br>0.19         | 2.39                         | 0.55<br>0.54<br>0.69         | 0.40                         |
| 69<br>70<br>71             | 2.55<br>2.55<br>2.26         | 0. <b>05</b><br>0. <b>0</b> 7<br>0.3 <b>8</b> | 0.02<br>0.04<br>0.20         | 2.36<br>2.17<br>2.62<br>2.82 | 0.11<br>0.73<br>0.51         | 0.08<br>0.54<br>0.38         |
| 72<br>73<br>74<br>75       | 4.32<br>3.76<br>2.46<br>4.51 | 1.64<br>1.64<br>0.55<br>0.56                  | 0.54<br>0.85<br>0.29<br>0.29 | 5.93<br>3.44<br>2.98<br>2.81 | 2.85<br>0.28<br>0.97<br>0.82 | 2.09<br>0.20<br>0.71<br>0.60 |
| 76<br>77<br>78             | 2.44<br>2.48<br>5.22         | 0. <b>33</b><br>0. <b>03</b>                  | 0.17<br>0.02<br>0.08         | 5.38<br>2.78<br>2.59         | 1.80<br>0.88<br>0.67         | 1.32                         |
| 79<br>80                   | 2.69                         | 0.59  | 0.31                         | 2.67<br>5.06                 | 0.36<br>2.32                 | 0.26                         |

| ¥r                                     |   | Buildin  |  | ntenance<br>Temp<br>Mean | Building<br>SDev   | s 901<br>+/-                           |
|--|---|--|--|--------------------------|--|--|
| 73<br>74<br>75<br>76<br>77<br>78<br>79 | 2056900.000.000.000.000.000.000.000.000.000 | 0.21233324<br>0.21233324<br>0.2233324<br>0.2233324<br>0.225<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228<br>0.228 | 0.033333333333333333333333333333333333 | 0.40<br>0.42<br>0.53     | 0.24<br>0.24<br>0.23<br>0.23<br>0.21<br>0.23<br>0.25<br>0.25<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23 | 0.000.000.000.000.000.000.000.000.000. |

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|

| Yr   |  | al Mainte<br>Building<br>SDev                             |  | Teap<br>Nean   | Building<br>SDev   | s 90Z<br>+/-                            |
|--|--|---|--|--|--|---|
| 1234567890112314567890123345678901233456789012345678901234567890 | 0.57.60.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | 921225732461301448863383837770000000000000000000000000000 | 0.033333333333333333333333333333333333 | 0.43<br>0.43<br>0.55<br>0.55<br>0.73<br>0.91<br>0.91<br>0.91<br>0.91<br>0.91<br>0.91<br>0.91<br>0.91 | 0.54<br>0.88<br>0.60<br>0.75<br>0.61<br>0.65<br>0.61<br>0.58<br>0.63 | 0.0101010101010101010101010101010101010 |

| Annı<br>Yr  |  | red Hain<br>Besiding<br>SDev  |   |
|---|--|---|---|
| 123456789011234567890122222222222223456789012334567890123345678901233456789012334567890 | 00000000000000000000000000000000000000 | 0.03431504515873322344922285590505555145223311555314823321525545354545455544556545557355555565549324556553350655533506555335666666666666666 | 0.02<br>0.0334044444444444444444444444444444444 |

| Major<br>Yr  |  | ret Repla<br>Buildings<br>SDev  |   |
|--|--|---|---|
| 123456789011231456789011233456789901233467899012334678990123346789901233467899012334678990123346789901233467899012334678990123346789901233467899012334678990123346789901233467899012334678990123346789901233467899012334678990123346789901233467899012346789901234678990123467899012346789901234678990123467899012346789901234678990123467899012346789900123467899012346789901234678990012346789900000000000000000000000000000000000 | 00.000.0034529873354233000.000.000.000.000.000.000.000.000.0 | 0.000<br>0.001<br>0.000<br>0.001<br>0.000<br>0.001<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 |

| Te  |             | ntenance  |                     |
|---|-------------|---|---------------------|
| Yr  |             | il Duild<br>PAG S   | ings 90I<br>Dev +/- |
| 1234567890112345167890122345678901233353335333444444445515234566666666666677777777890 | 0000000000. | 56 0. 62 0. | 32                  |

| Annual<br>Yr                | Requir<br>All B<br>Heam   | ed Maint<br>Mildings<br>SDev             | enance<br>901<br>+/-                          |
|-----------------------------|---|--|---|
| 145567788990112731475677899 | 0.56<br>0.085<br>0.085<br>0.085<br>1.09<br>1.09<br>1.09<br>1.09<br>1.09<br>1.09<br>1.09<br>1.09 | 0.000.227333770000.000000000000000000000 | 0.0333333333333333222224444444444443332333333 |

Charles

| . Major<br>Yr  | Compo<br>All<br>Mea   | Buildin                                |      |
|--|---|--|------|
| 41<br>42<br>43<br>44<br>45<br>47<br>48<br>49<br>50<br>51<br>53<br>55<br>56<br>61<br>62<br>63<br>64<br>65<br>67<br>70<br>71<br>72<br>73<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77 | .33<br>.35<br>.50<br>.51<br>.70<br>.25<br>.62<br>.97<br>.26<br>.33<br>.41<br>.59<br>.74 | 0.000000000000000000000000000000000000 | 0.00 |

| Total<br>Yr  | Mainter<br>All 1<br>Mean                            | nance<br>Dusidings<br>SDev      | 901<br>+/-                             |
|--|---|---------------------------------|--|
| 1234567890112345678901223456789012334567890123345678901234567890 | 0.5645692993887747387741111111111111111111111111111 | 0.22187323435033171157774459927 | 0.033333333333333333333333333333333333 |

| <b>An</b> ni<br>Yr  | ual Requ<br>All<br>Mean                          | ired Main<br>Building<br>a SDev | 901                                     |
|---|--|---------------------------------|---|
| 12345678901234567890122322222222223333333356789012345678901200000000000000000000000000000000000 | 0.55428710.0.00.00.00.00.00.00.00.00.00.00.00.00 | 0.46<br>0.45                    | 0.0333444444444444444444444444444444444 |

| 38  |  |  |   |
|---|--|--|---|
| Majo<br>Yr  | r Compon<br>All<br>Mean  | est Repl<br>Building<br>SDev                                 |   |
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| T <b>otal</b><br>Yr   | Maint<br>All<br>Mean                             | enance<br>Building<br>n SDev           |  |
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| 556<br>57<br>58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>67<br>68<br>69<br>71<br>72<br>73<br>74<br>17<br>75<br>17<br>77<br>78<br>11 | .52<br>.45<br>!.01<br>!.11<br>!.29<br>.87<br>.84 | 0.000.000.000.000.000.000.000.000.000. | 0.0330440506000000000000000000000000000000 |

| Annual<br>Yr   | Requir<br>All B<br>Hean  | ed Maint<br>Wildings<br>SDev   | 90I<br>+/-                               |
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| 0.00<br>0.00<br>0.01  | Buildin<br>a SDe                 |
| 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  | iý +/-                           |

| Total<br>Yr                                      | Mainten<br>All S<br>Mean                                    | ance<br>uildings<br>SDev   | 90I<br>+/-                               |
|--|---|--|--|
| 123456789011111111112222222222223333333333333333 | 0.141.142.382.46334.88113282.222.222.222.2222.2222.2222.222 | 0.03330<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0.1500<br>0 | 0010112272222222222233333333333333333333 |

| Annual<br>Yr   | Regui<br>All<br>Mean            | red Main:<br>Building:<br>SDev                             | tenance<br>901<br>+/-                         |
|--|---------------------------------|--|---|
| 36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>50<br>51<br>52<br>53<br>55<br>55<br>55<br>56<br>66<br>67<br>68<br>67<br>67<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77 | .56<br>.42<br>.43<br>.45<br>.65 | 0.01343017.00.655340.00.00.00.00.00.00.00.00.00.00.00.00.0 | 0.0020333333444444444443333334444433343333333 |

| 333333333333333333333333333333333333333   |                |
|---|----------------|
| 23456789012315  | Majo<br>Yr     |
| 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000 | All<br>Mea     |
| 0.000000000000000000000000000000000000  | Buildin<br>SDe |
| 0.00<br>0.00<br>0.00  | · +/-          |

| Tot  |  | eurics   |  |
|--|--|--|--|
| Yr   | Al I<br>Mea                              | Beilding<br>SDev   | s 90I<br>+/-                                 |
| 12345678901123456789012234567890123333333333344444444567890123456789012334567890 | 0.1.1.1.1.1.1.2.2.2.2.2.2.2.2.2.2.2.2.2. | 1.08<br>1.26<br>1.16<br>1.12<br>1.23<br>1.24<br>1.18<br>1.18<br>1.17<br>1.17<br>1.12<br>1.13 | 0.021333303044555555555555555555555555555555 |

| Yr   |   | or Compon<br>Building<br>SDev                               |  | l sceannt<br>Temp<br>Mean                                   | Building:<br>SDev   | 901<br>+/-                             |
|--|---|---|--|---|---|--|
| 12345678901123456789011234678901123467890011234678900112346789000000000000000000000000000000000000 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.00<br>0.01<br>0.01<br>0.01<br>0.02<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.000000000000000000000000000000000000 |

| Yr  | Tota<br>Pera<br>Mean   | l Maint::<br>Duildings<br>SDev   |  | Teap<br>Hean   | Buildings<br>SDev   | 90I<br>+/-                              |
|---|--|--|--|--|---|---|
| 12345678901234567890123222222222223333333333333444234456789012345678901234567877777777777777777777777 | 0.45<br>0.45<br>0.66<br>0.66<br>0.66<br>0.66<br>0.66<br>0.79<br>0.79<br>0.11<br>1.12<br>1.33<br>1.21<br>1.32<br>1.33<br>1.34<br>1.33<br>1.34<br>1.33<br>1.34<br>1.33<br>1.34<br>1.33<br>1.34<br>1.33<br>1.34<br>1.33<br>1.34<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35 | 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|--|--|---|-----------------------|--|---|---|
| 12345 b7 99 0112345 67 89 0112 | 0.76<br>0.78<br>0.79<br>0.99<br>0.99<br>0.99<br>0.99<br>1.15<br>1.55<br>1.50<br>1.15<br>1.15<br>1.15<br>1.15<br>1.15 | 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| Yr  | Tota<br>Pera<br>Nean   | i Mainte<br>Building<br>SDev            |  | Teap<br>Mean   | Buildings<br>SDev                                     | 90I<br>+/-                              |
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Nov 18, 1988

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| Yr<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22 |   | 07 Compore Building Spey 0.00 0.00 0.00 0.01 0.06 0.02 0.06 0.21 0.61 0.07 0.14 0.13 0.28 0.17 0.44 0.62 0.16 0.47 0.47 0.48  |  |  | Building<br>SDev<br>0.00<br>0.00<br>0.00<br>0.26<br>0.00<br>0.01<br>0.75<br>0.01<br>0.37<br>0.00<br>0.03<br>0.02<br>0.12<br>1.12<br>0.19<br>0.60<br>0.09 | •                                       |
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| 1234567891011213145167819201122324567289313233353333333333333333555555555555555 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 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|   |  | l Mainte<br>Duilding   |  | , jem  | Burldings     | 901                                      |
|---|--|--|--|--|---------------|--|
| Yr  | Reas   | Shev   | +/-  | Nesa   | S <b>Be</b> v | +/-                                      |
| 12345678901123456789012234567890123345678901234567890100000000000000000000000000000000000 | 0.77<br>0.17<br>0.77<br>0.10<br>0.10<br>0.10<br>0.10<br>1.07<br>1.09<br>1.09<br>1.09<br>1.09<br>1.09<br>1.09<br>1.09<br>1.09 | 0.02<br>0.02<br>0.02<br>0.02<br>0.03<br>0.03<br>0.03<br>0.03 | 0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03 | 9.151.54<br>9.151.54<br>9.151.54<br>9.151.55<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165.62<br>9.165. | 0.38          | 0.16500.000.0000.0000.0000.0000.0000.000 |

| Yr |  | or Compos<br>Building<br>SDev        |  | Lacement<br>Temp<br>Mean | Building<br>SDev   | s 90I<br>+/-  |
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|    | 0.00<br>0.13<br>0.00<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13 | 0.87<br>0.87<br>0.85<br>1.37<br>0.98 | 0.001331117.00000.0000.0000.0000.0000.00 | 0.00<br>0.00<br>0.00     | 2.04<br>0.45<br>0.66<br>2.18<br>2.57<br>0.45<br>0.75<br>0.56<br>0.75<br>0.67<br>0.69<br>0.69 | 0.000.0044.30072124.427134.427134.427134.427135.4497374.000.000.0000.0000.0000.0000.0000.00 |

| Yr   |  | l Mainte<br>Buildings<br>SDev                             |  | Temp<br>Mean                              | Buildings<br>SDev   | 901<br>+/-                             |
|--|--|---|--|---|---|--|
| 123456789101123145167189222222222222222222222222222222222222 | 0.7884651993633221.1.1.1.1.2.2.1.1.3.2.2.2.3.2.2.3.2.2.1.3.2.2.2.2 | 0.2260633169959196180061110111101110011000011001100110011 | 0.15600000000000000000000000000000000000 | 0.1.2.2.1.1.1.2.2.2.2.2.2.2.3.3.3.2.2.2.2 | 0.222219673758966625996668173771216682000000000000000000000000000000000 | 00000000000000000000000000000000000000 |

| Hajor<br>Yr   | Compone<br>All<br>Hean  | ent Repl<br>Building<br>SBev   |   |
|---|---|--|---|
| 67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br><b>75</b> | 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| 77<br>78<br>79 | 1.281.1281.135.699     | 0.060<br>0.07<br>0.09<br>0.012<br>0.07<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.02<br>0.0 | 0.110<br>0.010<br>0.110<br>0.010<br>0.124<br>0.153<br>0.154<br>0.155<br>0.154<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155<br>0.155 |

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| 59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>77<br>78 | 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|------------------|-----------------------|------------------------------|--------------|----------------------|----------------------|--------------|
| Yr               | rera :<br>Kean        | Buildings<br>SDev            | 90I<br>+/-   | Hean                 | Buildings<br>SDev    | +/-          |
| 1 2              | 0.11<br>0.54          | 0.00                         | 0.00         | 0.14                 | 0.12<br>0.20         | 0.04         |
| 2<br>3<br>4      | 0.55<br>0.61          | 0.00                         | 0.00         | 0.33                 | 0.20<br>0.27         | 0.06         |
| 5                | 0.59                  | 0.00                         | 0.00         | 0.42<br>0.40         | 0.28<br>0.30         | 0.08         |
| 6<br>7           | 0.56                  | 0.00                         | 0.00         | 0.42                 | 0.29                 | 0.08         |
| 8                | 0.70<br>0.73          | 0.00<br>0.00                 | 0.00         | 0.47<br>0.54         | 0.29<br>0.33         | 0.08         |
| 10<br>11         | 0.76                  | 0.00<br>0.00                 | 0.00         | 0.50<br>0.51<br>0.54 | 0.30<br>0.28         | 0.09<br>0.08 |
| 12<br>13         | 0.72                  | 0.00                         | 0.00         | 0.54<br>0.52         | 0.26<br>0.33         | 0.07<br>0.09 |
| 14<br>15         | 0.79<br>0.72<br>0.74  | 0.00                         | 0.00         | 0.48                 | 0.29                 | 0.08         |
| 16               | 0.73                  | 0.00                         | 0.00         | 0.50<br>0.48         | 0.31<br>0.34         | 0.09         |
| 17<br>18         | 0.44<br>0.43          | 0.00                         | 0.00         | 0.46                 | 0.30                 | 0.09         |
| 19<br>20         | 0.66<br>0.73          | 0.0 <b>0</b><br>0.0 <b>0</b> | 0.00         | 0.53<br>0.54         | 0.22<br>0.30         | 0.06         |
| 21<br>22         | 1.0 <b>8</b><br>0.67  | 0.00<br>0.00                 | 0.00<br>0.00 | 0.57<br>0.55         | 0.41<br>0.34         | 0.12         |
| 23<br>24         | 0.64                  | 0.00                         | 0.00         | 0.49                 | 0.30<br>0.29         | 0.09         |
| 25               | 0.74                  | 0.00                         | 0.00         | 0.49                 | 0.34<br>0.50         | 0.10         |
| 26<br>27         | 0.70                  | 0.00                         | 0.00         | 0.46                 | 0.2B                 | 0.08         |
| 28<br>29<br>30   | 0.74<br>0.72          | 0.00<br>0.00                 | 0.00         | 0.55                 | 0.33<br>0.30         | 0.08         |
| 31               | 0.67<br>0.81          | 0.00                         | 0.00         | 0.57<br>0.52         | 0.31<br>0.32         | 0.09         |
| 32<br>33         | 0.73<br>0.71          | 0.00<br>0.00                 | 0.00         | 0.50<br>0.51         | 0.29<br>0.26         | 0.0B<br>0.07 |
| 34<br>35         | 0.47<br>0.72          | 0.00<br>0.00                 | 0.00<br>0.00 | 0.48<br>0.41         | 0.25<br>0.27<br>0.34 | 0.07         |
| 36<br>37         | 0.74<br>0.73          | 0.00                         | 0.00         | 0.45<br>0.53         | 0.33                 | 0.10<br>0.10 |
| 38<br>39         | 0.66                  | 0.00                         | 0.00         | 0.47                 | 0.32<br>0.25         | 0.09         |
| 40<br>41         | 0.66                  | 0.00                         | 0.00         | 0.45<br>0.54         | 0.25<br>0.34         | 0.07         |
| 42               | 0.61                  | 0.00                         | 0.00         | 0.51                 | 0.29<br>0.26         | 0.08         |
| 43<br>44         | 0.64                  | 0.00                         | 0.00         | 0.43<br>0.45         | 0.30                 | 0.08         |
| 45<br>46         | 0.63<br>0.73          | 0.00                         | 0.00         | 0.49<br>0.52         | 0.33<br>0.32         | 0.09         |
| 47<br>48         | 0.69<br>0.70          | 0.00<br>0.00                 | 0.00         | 0.46                 | 0.28<br>0.28         | 0.08<br>0.08 |
| 49<br>50         | 0.87<br>0.74          | 0.00<br>0.00                 | 0.00         | 0.57<br>0.54         | 0.31<br>0.32         | 0.09         |
| 51<br>52         | 1.27                  | 0.00                         | 0.00         | 0.46                 | 0.59<br>0.27         | 0.17         |
| 53               | 0.74                  | 0.00                         | 0.00         | 0.43<br>0.44         | 0.27<br>0.28         | 0.08         |
| 54<br>55         | 0.70<br>0.73          | 0.00                         | 0.00         | 0.47                 | 0.32                 | 0.09         |
| 56<br>57         | 0.71<br>0.72          | 0.00                         | 0.00         | 0.50<br>0.53         | 0.34<br>0.32         | 0.10         |
| 58<br>59         | 0.65<br>0.64          | 0.00                         | 0.00         | 0.51<br>0.50         | 0.30<br>0.30         | 0.09         |
| 60<br>61         | 0.74<br>0.91          | 0.00<br>0.00                 | 0.00         | 0.48<br>0.51         | 0.29<br>0.36<br>0.28 | 0.08         |
| 62<br>63         | 0.62                  | 0.00<br>0.00                 | 0.00         | 0.44<br>0.46         | 0.28<br>0.29         | 0.08<br>0.08 |
| 64<br>65         | 0.71                  | 0.00                         | 0.00         | 0.46                 | 0.29<br>0.34<br>0.38 | 0.10         |
| 66<br>67         | 0.75<br>0.66          | 0.00                         | 0.00         | 0.49                 | 0.30<br>0.30         | 0.09         |
| 48               | 0.67                  | 0.00                         | 0.00         | 0.45<br>0.50         | 0.29                 | 0.08         |
| 69<br>70         | 0.71<br>0.66          | 0.00                         | 0.00         | 0.52                 | 0.26                 | 0.07         |
| 71<br>72<br>73   | 0.87<br>0.74          | 0.00                         | 0.00         | 0.52<br>0.51         | 0.29<br>0.33<br>0.32 | 0.09         |
| 74               | 0.74<br>0.49<br>0.74  | 0.00                         | 0.00         | 0.48<br>0.44         | 0.25                 | 0.07         |
| 75<br>76         | 1.12                  | 0.00                         | 0.00         | 0.43<br>0.45         | 0.26<br>0.33         | 0.07         |
| 77<br>7 <b>9</b> | 0. <b>0</b> 2<br>0.70 | 0.00                         | 0.06         | 9.44                 | 0.32<br>0.34         | 0.07         |
| 79<br>80         | 0.44                  | 0.00                         | 0.00         | 0.50<br>0.52         | 0.29<br>0.35         | 0.08         |
|                  |                       |                              |              |                      |                      |              |

| Yr   |  | burlden  | gs 901                               | i acement<br>Temp<br>Hean                                    | Building<br>SDev   | 90I<br>+/-   |
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| 12345 b7 8901173145 b18922222345 b2789201123445 b789201123445 b789201173145 b789201173145 b789201173145 b789201173145 b789201173145 b789201173145 b789201173145 b6789201173145 b6789201173145 b789201173145 b6789201173145 b789201173145 b78920117315 b789201175 b789201175 b789201175 b78920 | 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| Yr   | Tot.<br>Pers<br>Hean  | al Mainte<br>Building<br>SDev   |   | Teap<br>Hean  | Building<br>SDev | s 901<br>+/-   |
|--|---|---|---|---|------------------|--|
| 12345678901123456789012345678901233456789012344567890123456789000000000000000000000000000000000000 | 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| Yr 123455678910111122  | Pern<br>Mean<br>0.23<br>0.59<br>0.63<br>0.73<br>0.74<br>0.12<br>1.12<br>1.14<br>1.20  | 9ulding<br>SDev<br>0.09<br>0.15<br>0.16<br>0.18<br>0.19<br>0.23<br>0.44<br>0.60<br>0.46<br>0.40  | 90I<br>+/-<br>0.04<br>0.07<br>0.07<br>0.08<br>0.08<br>0.09<br>0.11<br>0.21<br>0.28<br>0.22<br>0.19   | Hean 0.08 0.54 0.57 0.62 0.77 0.76 0.79 1.19 0.94  | Dualdings<br>SDev<br>0.03<br>0.14<br>0.12<br>0.19<br>0.28<br>0.13<br>0.28<br>0.10<br>0.41<br>0.17<br>0.49<br>0.12  | 0.02<br>0.10<br>0.09<br>0.14<br>0.20<br>0.09<br>0.20<br>0.07<br>0.30   |
| 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>33<br>33<br>35<br>35<br>35<br>35<br>35<br>36<br>36<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37 | 1.18<br>1.58<br>1.31<br>1.14<br>1.23<br>1.30<br>1.95<br>1.30<br>0.98<br>1.353<br>1.71<br>2.21<br>1.58<br>2.17<br>2.12<br>1.41<br>1.42<br>1.42<br>1.42<br>1.42 | 0.19<br>0.66<br>0.63<br>0.61<br>0.55<br>0.78<br>0.52<br>0.60<br>0.71<br>0.73<br>0.77<br>0.77<br>0.77<br>0.43<br>0.52<br>0.53<br>0.49         | 0.09<br>0.31<br>0.30<br>0.29<br>0.25<br>0.37<br>0.25<br>0.30<br>0.34<br>0.37<br>0.53<br>0.34<br>0.53<br>0.21<br>0.53                         | 1.48<br>0.85<br>1.97<br>2.22<br>1.10<br>1.14<br>1.46<br>1.09<br>0.87<br>0.79<br>0.85<br>1.56<br>1.38<br>0.97<br>1.13<br>3.17<br>0.94<br>2.45<br>1.09   | 0.45<br>0.12<br>0.94<br>1.13<br>0.52<br>0.38<br>0.47<br>0.52<br>0.12<br>0.14<br>0.20<br>0.54<br>0.12<br>0.31<br>1.89<br>0.13<br>0.52                                 | 0.33<br>0.09<br>0.49<br>0.28<br>0.28<br>0.24<br>0.25<br>0.08<br>0.10<br>0.15<br>0.40<br>0.23<br>1.39<br>0.23<br>0.38                         |
| 3578 379 441 444 45 445 555 555 555 555 555 555  | 1.07<br>1.21<br>1.55<br>1.10<br>2.01<br>3.00<br>1.83<br>0.93<br>1.26<br>1.21<br>0.98<br>1.78<br>1.37<br>2.15<br>1.79<br>1.64<br>1.57<br>1.64                  | 0.23<br>0.72<br>0.35<br>0.48<br>0.46<br>2.12<br>0.95<br>0.35<br>0.37<br>0.28<br>0.73<br>0.62<br>1.49<br>0.66<br>0.67<br>0.86<br>0.37<br>0.83 | 0.11<br>0.34<br>0.17<br>0.22<br>0.31<br>1.00<br>0.45<br>0.17<br>0.20<br>0.35<br>0.13<br>0.36<br>0.70<br>0.31<br>0.70<br>0.31<br>0.36<br>0.47 | 1.45<br>1.73<br>0.92<br>2.03<br>1.37<br>4.55<br>1.04<br>2.09<br>0.97<br>1.28<br>1.01<br>0.92<br>1.97<br>1.98<br>1.96<br>1.102<br>1.62<br>1.62<br>1.62<br>1.62<br>1.62<br>1.62<br>1.62<br>1.6 | 0.55<br>0.77<br>0.16<br>1.55<br>0.05<br>0.15<br>0.15<br>0.13<br>0.12<br>0.17<br>0.18<br>0.12<br>0.15<br>0.15<br>0.17<br>0.15<br>0.17<br>0.18<br>0.17<br>0.15<br>0.17 | 0.40<br>0.56<br>0.11<br>0.25<br>0.48<br>0.12<br>0.32<br>0.09<br>0.17<br>0.13<br>0.95<br>0.22<br>0.80<br>0.22<br>0.22<br>0.22<br>0.22<br>0.22 |
| 61<br>62<br>63<br>64<br>65<br>65<br>65<br>67<br>77<br>77<br>78<br>79   | 2.47<br>1.77<br>1.33<br>1.80<br>1.29<br>1.52<br>1.70<br>1.20<br>2.19<br>2.13<br>1.57<br>1.80<br>1.29<br>1.46<br>1.76<br>1.69<br>1.57                          | 2.64<br>0.89<br>0.55<br>0.64<br>0.88<br>0.47<br>1.71<br>1.58<br>0.74<br>1.15<br>0.33<br>0.48<br>0.96<br>0.96                                 | 1.25<br>0.42<br>0.45<br>0.45<br>0.42<br>0.56<br>0.13<br>0.81<br>0.75<br>0.35<br>0.47<br>0.31<br>0.32<br>0.45                                 | 7.66<br>0.87<br>1.07<br>1.64<br>2.66<br>1.05<br>1.124<br>1.21<br>1.99<br>3.20<br>1.00<br>2.54<br>1.07<br>3.58<br>1.56<br>1.56<br>1.56  | 0.38<br>0.295<br>1.72<br>0.22<br>0.21<br>0.18<br>1.53<br>2.02<br>0.14<br>0.43<br>0.34<br>3.56<br>0.71<br>0.41<br>0.43  | 4.24<br>0.28<br>0.15<br>0.70<br>1.26<br>0.15<br>0.30<br>0.13<br>1.12<br>0.30<br>0.32<br>0.32<br>0.32<br>0.30<br>0.32                         |

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| 0.033300000000000000000000000000000000 |

| Yr   | Na):<br>Pera<br>Rean  | or Compos<br>Building<br>SDev                               |  | lacement<br>Tesa<br>Mean                                    | Building<br>SDev                             | s 901<br>+/-                           |
|--|---|---|--|---|--|--|
| 12345 67890112345 67890122345 6789012334556789012345 6789012355789012345 67890123745 67890123745 67890 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.000000000000000000000000000000000000 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 0.37<br>2.98<br>0.37<br>0.41<br>0.44<br>0.20 | 0.000000000000000000000000000000000000 |

| Yr   | Tota<br>Pera<br>Mean  | i Mainte<br>Building<br>SDev |   | Tees<br>Hean                            | Building:<br>SDev                      | 90I<br>+/-                             |
|--|---|------------------------------|---|---|--|--|
| 123456789011234567890112322222222222223456789012333333333333333333333333333333333333 | 1.1.1.1.1.2.4.2.2.2.3.2.4.2.4.2.5.2.2.2.4.2.4.2.4.2.2.2.2.2.2 |                              | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000 | 0.00.00.00.00.00.00.00.00.00.00.00.00.0 | 0.000.000.000.000.000.000.000.000.000. | 0.000000000000000000000000000000000000 |

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| Yr<br>1   | Mean<br>0.00   | SDev<br>0.00   | +/-<br>0.00   | <b>Nean</b><br>0.00   | 5 <b>Dev</b> 0.00  | +/-<br>0.00   |
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